

ORDER NO.DSD0403001C8

Service Manual

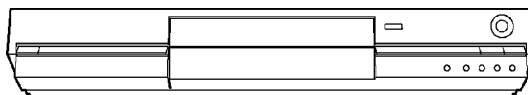
DVD Video Recorder

DMR-E53EG / DMR-E55EB / DMR-E55EG / DMR-E55EBL /
DMR-E55EP

Colour

(K).....Black Type

(S).....Silver Type



Notes: The part of DVD Drive (VXY1794/VXY1855)
is listed separately.
Please refer ORDER No. RAM0402001C0

SPECIFICATIONS

Specifications

Power supply	AC220-240 V, 50 Hz		Antenna reception system	E53EG,E55EG	
Power consumption	29 W			PAL-BGH	VHF: CH E2 - CH E12, CH A - CH H2 (For Italy) UHF: CH 21 - CH 69 CATV: CH S01- CH S05(S1- S3), CH S1- CH S20(M1- U10), CH S21- CH S41
Recording system	DVD video recording format (DVD-RAM), DVD video format (DVD-R)				SECAM-L,L'
Optical pick-up	System with 1 lens, 2 integration units (658 nm wavelength for DVDs, 795 nm wavelength for CDs)			E55EB,E55EBL	
Recordable discs	• 12 cm 4.7 GB DVD-RAM discs • 12 cm 9.4 GB DVD-RAM discs • 8 cm 2.8 GB DVD-RAM discs • 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0) • 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) • 12 cm 4.7 GB DVD-R discs (for General Ver 2.0/ 4X-SPEED DVD-R Revision 1.0)			PAL-I	VHF: CH 4 - CH 13, CH A - CH J (For E55EBL) UHF: CH 21 - CH 68
					E55EP(PAL-BGH,I,DK),(SECAM-BG,DK)
Recording time	Max. 8 hours (using 4.7 GB disc) XP: 60 minutes SP: 120 minutes LP: 240 minutes EP: 360 minutes or 480 minutes			OIRT(DK)	
Region number	Region No.2			CCIR(BGH)	
Discs played	• 12 cm 4.7 GB DVD-RAM discs • 12 cm 9.4 GB DVD-RAM discs • 8 cm 2.8 GB DVD-RAM discs • 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0) • 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) • 12 cm 4.7 GB DVD-R discs (for General Ver 2.0/ 4X-SPEED DVD-R Revision 1.0) • DVD-VIDEO discs • DVD-Audio discs • CD-Audio discs (CD-DA) • Video CD discs • CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)			South Africa (PAL-I)	VHF: CH 4- CH 13 UHF: CH 21 - CH 68
				E55EB	UHF: CH 21 - CH 68, 71 ± 3dBuV 75Ω
Video system			Except E55EB		Not provided
			RF Converter Output		
			Audio system		
			Recording system		Dolby Digital 2ch
TV system	E53EG,E55EG E55EP	SECAM(Only Input)/PAL system, 625 lines, 50 fields /NTSC system, 525 lines, 60 fields	Analog Input		
	E55EB,E55EBL	PAL system, 625 lines, 50 fields /NTSC system, 525 lines, 60 fields	Analog Output		
Recording system	E53EG Except E53G	MPEG2 (Normal-HVBR) MPEG2 (Hybrid VBR)	Number of channels		
Video Input	Video In: (SECAM/PAL /NTSC)	AV1/AV2(21pin x 2), AV3/AV4(pin jack x 2) 1.0Vp-p ; 75Ω	Digital Output		
	S-Video In: (SECAM/PAL /NTSC)	AV2(21pin), AV3/AV4(S connector x 2) Y:1.0Vp-p ; 75Ω, C:0.3Vp-p ; 75Ω	Dimensions		
Video Output	RGB In(PAL):	AV2(21pin) 0.7Vp-p ; 75Ω	Mass		
	Video Out: (PAL/NTSC)	AV1/AV2(21pin x 2), LINE(pin jack x 1) 1.0Vp-p ; 75Ω	Operating temperature		
	S-Video Out: (PAL/NTSC)	AV1(21pin), S connector x 1 Y:1.0Vp-p ; 75Ω, C:0.3Vp-p ; 75Ω	Operating humidity range		
	RGB Out: (PAL)	AV1(21pin), 0.7Vp-p ; 75Ω	Clock unit		
	Component video out: (NTSC 480P/480i) (PAL 576P/576i)	Y: 1.0Vp-p ; 75Ω(pin jack) PB: 0.7Vp-p ; 75Ω(pin jack) PR: 0.7Vp-p ; 75Ω(pin jack)	LASER Specification (Class I LASER Product)		
			Wave length	795 nm, 658 nm	
			Laser power	No hazardous radiation is emitted with the safety protection.	
			Power consumption in standby mode	approx. 3.0 W	

Notes : Mass and dimensions are approximate.
Specifications are subject to change without notice.

Panasonic

1. Safety precautions

1.1. General guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or

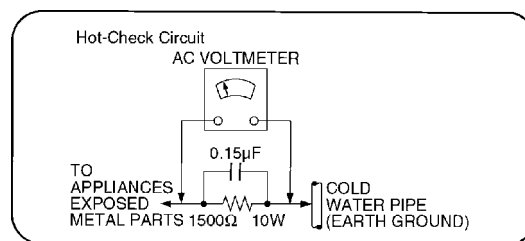
damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M } \Omega$ and $5.2\text{M } \Omega$. / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Figure 1



1.1.2. Leakage current hot check / (See [Figure 1](#) .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k } \Omega$, 10 watts resistor, in parallel with a $0.15 \mu \text{ F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in [Figure 1](#) .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or

comparableconductive material).


7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficientto damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

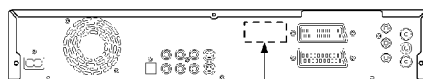
CAUTION:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 795 nm/658 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

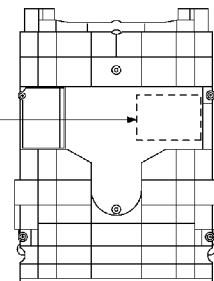
Dieses Produkt enthält eine Lasereinheit.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Lasereinheit adgestrahlt.
Wellenlänge: 795 nm/658 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungen der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:
1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Lasereinheit gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

CLASS 1
LASER PRODUCT

CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (F04, 21 DFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (F04, 21 DFR)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EVITER L'EXPOSITION DIRECTE AU FASCEAU. (F04, 21 DFR)
ADVARSEL	- SYMBOLO OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UAKTIGT Blik PÅ STRÅLINGEN. (F04, 21 DFR)
VARO!	- AVOITASSA OLET ALTIMIN VÄRÄÄ JA NÄKTYVÄ LASERSTRÄLÄ. ÄLÄ KATSO KÄTSEEN. (F04, 21 DFR)
WARNING	- SYMBOL OG USYNLIG LASERSTRÅLING NÅR DENNEN DEL ÅBNS. UNDGÅ UAKTIGT Blik PÅ STRÅLINGEN. (F04, 21 DFR)
ADVARSEL	- SYMBOL OG USYNLIG LASERSTRÅLING NÅR DENNEN DEL ÅBNS. UNDGÅ UAKTIGT Blik PÅ STRÅLINGEN. (F04, 21 DFR)
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG, WENN ABERKUNG GEÖFFNET. NICHT DEN STRÄHLUNG ANSCHAUEN. (F04, 21 DFR)
注意	- 打开时有可见及不可见激光辐射。请勿直视激光束。 (F04, 21 DFR)
注意	- 打开时有可见及不可见激光辐射。请勿直视激光束。 (F04, 21 DFR)



CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. Handling the Lead-free Solder

4.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

5. Each Buttons

6. Taking out the Disc from RAM-Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

6.1. Forcible Disc Eject

6.1.1. When the power can be turned off.

1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

6.1.2. When the power can not be turned off.

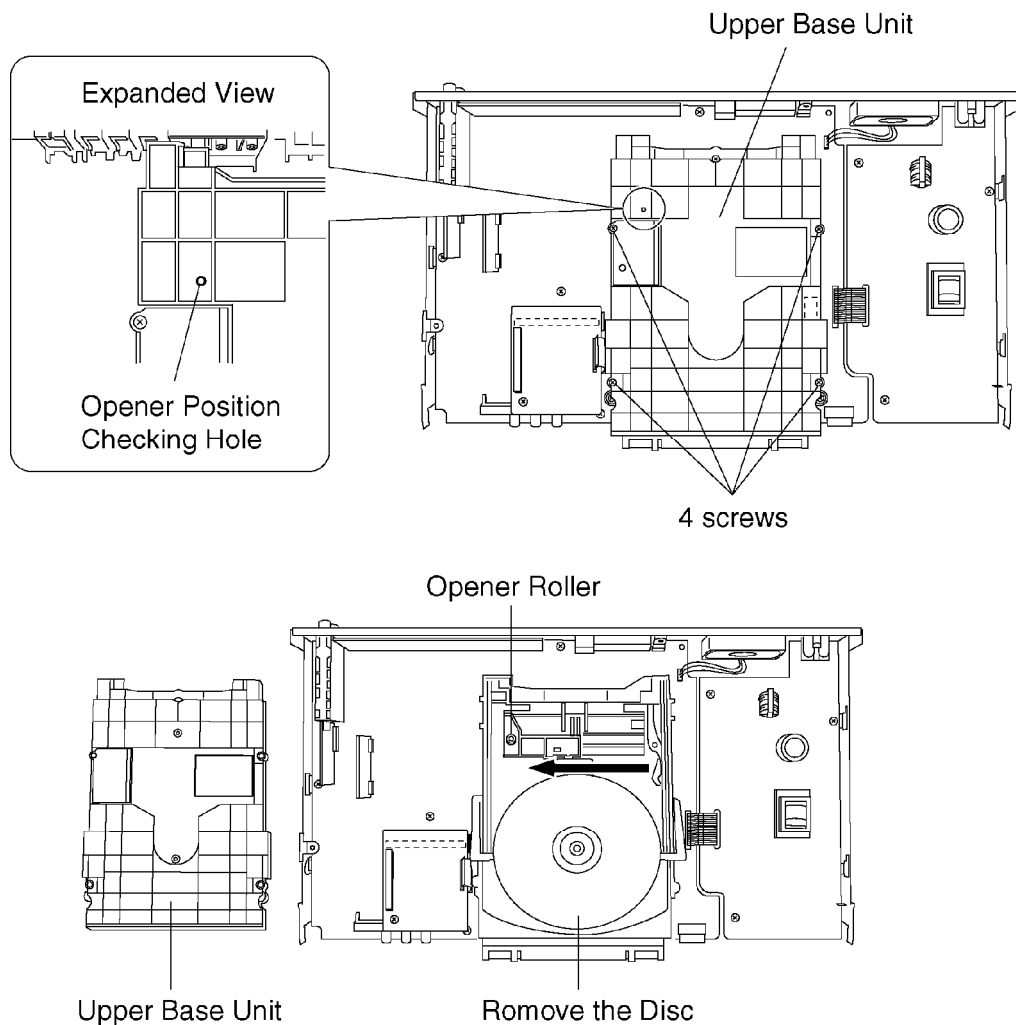
1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

6.2. When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Remove the Front Panel.
4. Remove 4 screws and Upper Base Unit from DVD-RAM Drive.
5. Take out the disc and put the Opener Roller on fully position for

direction of Arrow.

6. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
7. Check center of Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws.



7. Service Explorer

Confirm "RAM-Drive Last Error" in Service Mode

Execute Service Mode

1. Press [STOP], [TIME SLIP] and [OPEN/CLOSE] simultaneously for 5 seconds when P-off.

FL Display:

SERVICE MODE

***After finishing display “(7). Factor of Drive Error occurring”, press [0] [2] ~[9] [9] keys of the Remote Controller so that 99 memories can be displayed as maximum.**

2. Press [4] [2] keys of remote controller.

Example of FL Display:

(1) Error Number is displayed for 5 seconds.

NO 01

(2) Time when the error has occurred is displayed for 5 seconds.

40216191526

The error has occurred at 2004(year)/Feb.(month)/16(day)/19(hour):15(minute):26(second)

(3) Last Drive Error (1/2) is displayed for 5 seconds.

03 1000

**Error Sense
Key**

00: Bad disc
03: Bad disc
04: Bad disc or RAM-Drive malfunction

When above error codes are displayed, confirm operation with Panasonic RAM disc or Panasonic DVD-R disc.
*If the operation is OK, judge the error is due to media.
*If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital appears, judge the error is due to RAM-Drive or Digital PCB.

(4) Last Drive Error (2/2) is displayed for 5 seconds.

00 13 00 00

*This error code is unnecessary for service.

(5) Error occurring Disc type is displayed for 5 seconds.

MEDIA DVD-R

Disc type

*The error disc cannot be specified, display as "DVD".

(6) Disc Maker's ID is displayed for 5 seconds.

MXL R 061

Example of Disc Maker's ID:

DVD-R Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	Japan
2	PVC	Pioneer	Japan
3	MCC	Mitsubishi Chemical Corporation	Japan
4	TDK	TDK	Japan
5	MXL	Maxell	Japan
6	MCI	MITUI CHEMICALS	Japan
7	JVC	Victor JVC	Japan
8	TAIYOYUDEN	Taiyo yuden	Japan
	TYG		
9	GSC	Giga Storage	Taiwan
10	PRODISC	Prodisc	Taiwan
11	PRINCO	PRINCO	Taiwan
12	RITEK	RITEK	Taiwan
13	OPTDISC	OPTDISC	Taiwan
14	LEAD DATA	LEAD DATA	Taiwan
15	CMC	CMC	Taiwan
16	AUVISTAR	AUVISTAR	Taiwan
17	ACER	Acer	Taiwan
18	VIVASTAR	VIVASTAR	Switzerland
19	LGE	LG Electronics	Korea

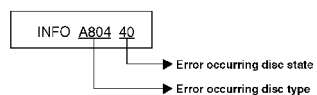
DVD-RAM Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	
2	MATSUSHITA	Panasonic	Japan
3	MXL	Maxell	Japan
4	PRODISC	Prodisc	Taiwan
5	OPTDISC	OPTDISC	Taiwan
6	CMC	CMC	Taiwan

*Since an display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.

Please make it reference as an example of a display.

(7) Factor of Drive Error occurring is left displayed



Error Occurring Disc Type

FL Display	Disc Type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

Error Occurring Disc State

FL Displays (Hexadecimal)	Description			
	Disc distinction state	Cartridge disc state	Cartridge disc state	Disc size
00	OK	With cartridge	Has not been opened yet.	12 cm
10	OK	With cartridge	Has not been opened yet.	8 cm
20	OK	With cartridge	Has been opened.	12 cm
30	OK	With cartridge	Has been opened.	8 cm
40	OK	Bare	Has not been opened yet.	12 cm
50	OK	Bare	Has not been opened yet.	8 cm
60	OK	Bare	Has been opened.	12 cm
70	OK	Bare	Has been opened.	8 cm
80	NG	With cartridge	Has not been opened yet.	12 cm
90	NG	With cartridge	Has not been opened yet.	8 cm
A0	NG	With cartridge	Has been opened.	12 cm
B0	NG	With cartridge	Has been opened.	8 cm
C0	NG	Bare	Has not been opened yet.	12 cm
D0	NG	Bare	Has not been opened yet.	8 cm
E0	NG	Bare	Has been opened.	12 cm
F0	NG	Bare	Has been opened.	8 cm

8. Self-Diagnosis and Special Mode Setting

8.1. Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by “Self-Diagnosis Display” when any error has occurred.

U14, H** and F** are stored in memory and held.

Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	FL display
U12	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	<div>REMOTE [</div> <div>“*” is remote code of the main unit. Display for 5 seconds.</div>
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	<div>U14</div> <div>“U14” is displayed for 5 minutes.</div>
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.	No display	<div>U99</div> <div>Displayed is left when [POWER] key is pressed.</div>
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on. The power is turned off when detecting.	No display	<div>H01</div> <div>Displayed is left when [POWER] key is pressed.</div>
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	<div>F00</div> <div>Displayed is left when [POWER] key is pressed.</div>
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	No display	<div>F01</div> <div>Displayed is left when [POWER] key is pressed.</div>
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory. The power is turned off when detecting.	No display	<div>F12</div> <div>Displayed is left when [POWER] key is pressed.</div>

Error Code	Diagnosis contents	Description	Monitor Display	FL disp
UNSUPPORTED	Unsupported disc error	<p>*An unsupported format disc was played, although the drive starts normally.</p> <p>*The data format is not supported, although the media type is supported.</p> <p>*Exceptionally incase of the disc is dirty.</p>	"This disc is incompatible."	<div>UNSUPPORTED</div> <div>Display for 5 seconds</div>
NO READ	Disc read error	<p>*A disc is flawed or dirty.</p> <p>*A poor quality failed to start.</p> <p>*The track information could not be read.</p>	"Cannot read. Please check the disc."	<div>NOREAD</div>
HARD ERR	Drive error	The drive detected a hard error.	"DVD drive error."	<div>Display for 5 seconds</div> <div>HARD ERROR</div>
SELF CHECK	Restoration operation	<p>Since the power cord fell out during a power failure or operation, it is under restoration operation.</p> <p>*It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / RAM drive.</p>	No display	<div>SELF CHECK</div>
Full Program	16 programs are already set.	16 programs are already set.	No display	<div>PROG FULL</div>

8.2. Special Modes Setting

Item		FL display	Key operation
Mode name	Description		Front Key
TEST Mode	*All the main unit's parameters (include tuner) are initialized.	TEST AV1	Press [SKIP (RESLIP)] and [OPEN/CLOSE] keys simultaneously for five seconds when the power is off.
Service Mode	Setting every kind of modes for servicing. *Details are described in "8. 3. Service Mode".	SERVICE MODE	When the power is on, press [STOP], [PAUSE], and [OPEN/CLOSE] keys simultaneously for five seconds.
Rating password	The audiovisual level setting password is initialized to "Level 8".	INIT	Open the tray, and press [SKIP (REV)] and [SKIP (FWD)] keys simultaneously for five seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. *When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing TimerREC or EXT-LINK. *This command is not effective during "Child lock" is ON.	The display before execution leaves. *****	When the power is on, press [STOP] and [OPEN/CLOSE] keys simultaneously for five seconds.
Child lock/unlock	Set or release "Child Lock".	X HOLD	Press [ENTER] and [RETURN] by remote controller simultaneously until [X-HOLD] is displayed.
NTSC/PAL system select	To switch PAL/ NTSC alternately.	The display before execution leaves. *****	When the power is on (standby mode), press [STOP] and [OPEN/CLOSE] keys simultaneously for five seconds.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly.*When Timer REC is ON or EXT-LINK is ON, execute "Forced Power-off" after releasing Timer REC or EXT-LINK. Action: The tray will open, and the power will turn off.	Display in P-off mode.	Press [Power] key for more than 10 seconds.

Item		FL display	Key operation
Mode name	Description		Front Panel
Aging	Perform sequence of modes as * Aging Description shown below continually.	Display following the then mode.	When the power press [CH DOWN] and [OPEN] simultaneously for five seconds and then 10 seconds. *The [REC MODE] be set to EP or L. *When the unit has up because of power keys for over 10 once turn off the and re-execute the command. “When releasing mode, press [PC
Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by “Main unit initialization” of service mode.	*When lock the tray. <div>LOCK</div> “LOCK” is displayed for 3 seconds.	When the power press [STOP] and [POWER] keys simultaneously for 3 seconds.
		*When unlock the tray. <div>UNLOCK</div> “UNLOCK” is displayed for 3 seconds.	When the power press [STOP] and [POWER] keys simultaneously for 3 seconds.
		*When press OPEN/CLOSE key while the tray being locked. <div>LOCK</div> Display “LOCK” for 3 seconds.	Press [OPEN/CLOSE] while the tray being locked.
ATP re-execution	Re-execute ATP.	Display at ATP executing. <div>*****</div>	When the power (mode), press [CH DOWN] simultaneously for 3 seconds.

Item		FL display	Key oper:
Mode name	Description		(Remote contr
ROM Version Display	Region code, MAIN firm version, TIMER firm version and DRIVE firmware versions are displayed on FL for five seconds per each version in order, but ROM version will be left displayed.	REGION*	Press [0] [2] in s mode
		MAIN *****	
		TIMER*****	
		DRIVE ****	
		ROM * ***	
		<p>*</p> <p>“ ”are version displays.</p>	

Item		FL display	Key oper:
Mode name	Description		(Remote contr
Version Display of Main Microprocessor			
Example of FL Display			
<div>Version<div>0100SK</div></div>		<div>Destination Code and Model Code</div> <div><div><div>For Japan</div><div>SK: DMR-E55 SL: DMR-E85H SR: DMR-E95H SS: DMR-E300H SU: DMR-E500H SQ: DMR-E75V SV: DMR-E150V</div></div><div><div>For North America/Canada/Latin America</div><div>DK: DMR-E55P/PC/PL/F DP: DMR-E65P DL: DMR-E85HP/HPC DR: DMR-E95HP DU: DMR-E500HP/HPC DQ: DMR-E75VP/VPC/V</div></div><div><div>For Europe/Asia/</div><div>EK: DMR-E55EG/EB/EBL/EP/EE/GCS/GN/GK/GC, DMR-E53E EP: DMR-E65EG/EB/EP/EE/GCS/GN/GK/GC EL: DMR-E85HEG/HEB/HEP/HEE/HGCS/HGN ER: DMR-E95HEG/HEB EU: DMR-E500HEG/HEB/HGCS/HGN/HGK EQ: DMR-E75VEG/VEB</div></div></div>	
<div>OEM Code</div> <div>0: Matsushita Electric 1: Hitachi 2: Samsung 3: DENON</div>			
Version Display of Timer Microprocessor			
Example of FL Display			
<div>Version: 0.01<div>0010DA</div></div>		<div>Bottom 2 figures of Part Number of Timer Microprocessor: M30</div>	
White Picture Output	White picture is output as component Output from AV Decoder. *White picture (Saturation rate : 100%) *It is enable to switch Interlace/Progressive by “I/Pswitch: [1] [4]”	<div>Initial mode is “Interlace”.</div> <div>WHIT I</div>	Press [1] [1] in s mode.
		<div>Switch Interlace/Progressive</div> <div>WHIT P</div>	Press [1] [4] in V Picture Output n *I/P are switched alternately.
Magenta Picture Output	Magenta picture is output with Component Output from AV Decoder. *Magenta picture (Saturation rate: 100%) *It is enable to switch Interlace/Progressive by “I/Pswitch: [1] [4]”	<div>Initial mode is “Interlace”.</div> <div>MAGE I</div>	Press [1] [2] in s mode.
		<div>Switch Interlace/Progressive</div> <div>MAGE P</div>	Press [1] [4] in M Picture Output n *I/P are switched alternately.

Item		FL display	Key oper: (Remote contr
Mode name	Description		
RTSC Return in XP (A & V)	AV1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback.	Initial mode: EE2/ Interlace/ XP/ Audio 48kHz EE2 I XP 48	Press [1] [3] in s mode.
		Switch Interlace/ Progressive EE2 P XP 48	Press [1] [4] in F Return XP mode *I/P are switched alternately.
		Audio 44.1 kHz/ 48 kHz Switch EE2 P XP 44	Press [2] [4] in F Return XP mode *48 kHz / 44.1 kHz switched alternately.
I/P Switch	Switch Interlace and Progressive in EE mode. *Initial setting is "Interlace". *This command is effective during executing "White Picture Output", "MagentaPicture Output" and "RTSC Return in XP (A & V)" modes.	Initial mode is Interlace SERVICE I Switch Interlace/ Progressive SERVICE P	Press [1] [4] in I/ mode. *I/P are switched alternately.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.	TIMER MUTE	Press [2] [1] in s mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	Press [2] [2] in s mode.
Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB) *Audio sound clock switching operation of DAC can beconfirmed by sub command [2] [4].	Initial mode (Audio 48kHz) AUDIO 48	Press [2] [3] in s mode.
		Audio 44.1kHz/48kHz switching AUDIO 44	Press [2] [4] in A Pattern Output r *48 kHz / 44.1 kHz switched alternately.

Item		FL display	Key oper:
Mode name	Description		(Remote contr
Laser Used Time Indiction	Check laser used time (hours) of drive.	<div>LASER*****</div> <p>● (*****) is the used time display in hour. ● Laser used time ofDVD/CD in Playback/Recording mode is counted.</p>	Press [4] [1] in s mode.
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	<div>CLR LASER</div>	Press [9] [5] in s mode.

Item		FL display	Key oper: (Remote contr
Mode name	Description		
RAM Drive Last Error	<p>RAM Drive error code display.</p> <p>*For details about the drive error code, refer to the Service Manual for the specific RAM Drive.</p> <p>*Details are described in “7. Service Explorer ”.</p>	<p>1. Error Number is displayed for 5 seconds.</p> <div>NO **</div> <p>2. Time when the error has occurred is displayed for 5 seconds.</p> <div>YMMDDhhmmss</div> <p>Y: Year MM: Month DD: Day hh: Hour mm: Minute ss: Second</p> <p>3. Last Drive Error (1/2) is displayed for 5 seconds.</p> <div>*****</div> <p>4. Last Drive Error (2/2) is displayed for 5 seconds.</p> <div>*****</div> <p>5. Error occurring Disc type is displayedfor 5 seconds.</p> <div>MEDIA*****</div> <p>6. Disc Maker ID is displayed for 5 seconds.</p> <div>*****</div> <p>7. Factor of Drive Erroroccurring is left displayed</p> <div></div>	<p>Press [4] [2] in s mode.</p> <p>Then press [0] [the past 99 error displayed.</p> <p>Incase that the s cannot be identi display is black</p>

		INFO*****	
Item		FL display	Key operation (Remote control)
Mode name	Description		
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD RAM-Drive.	CLR DRIVE	Press [9] [6] in standby mode.
Turn on all FL/LEDs	All segments of FL and all LEDs are turned on.	All segments are turned on.	Press [5] [1] in standby mode.
PB HIGH Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is High (approx. 11V DC).	PB8 HIGH	Press [5] [2] in standby mode.
PB MIDDLE Signal Output	8 pin of AV 1 Jack (PB HIGH terminal) is Middle (approx. 5.5V DC).	PB8 MIDDLE	Press [5] [3] in standby mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front P.C.B.	<div> <div>0001</div> <div>(1)</div> </div> <div> <div>**</div> <div>(2)</div> </div> <p>(1) Each time a key is pressed, segment turned on increases one by one. (2) Total number of keys that have been pressed.</p>	Press [5] [4] in standby mode.
Production Date Display	Display the date when the unit was produced.	<div>PD YYYYMMDD</div> <p>YYY: Year MM: Month DD: Day</p>	Press [6] [1] in standby mode.
Display the accumulated working time	Display the accumulated unit's working time.	<div>*****</div> <p>(Indicating unit: Second)</p>	Press [6] [4] in standby mode.

Item		FL display	Key oper: (Remote contr
Mode name	Description		
Display the Error History	Display the Error History stored on the unit.	<p>Display reason of error for 5 seconds.</p> <div>FTREC***</div> <p>Display the time when the error has occurred for 5 seconds..</p> <div>YYMMDDHHMM</div> <p>YY: Year MM: Month DD: Day HH: Hour MM: Minute Display the accumulated working time to occurring of the error for 5 seconds..</p> <div>*****</div> <p>(Indicating unit: Second)</p>	<p>Press [6] [5] in s mode.</p> <p>Then press [0] [the past 19 error are displayed.</p>
Delete the Error History	Delete Error History information stored on the unit.	<div>CLR FTREC</div>	Press [9] [7] in s mode.
AV4(V)/AV1(RGB) I/O Setting	Set input to AV4(V) and set output to AV1(RGB) for I/O checking	<div>AV4V-AV1RGB</div>	Press [8] [0] in s mode.
AV2(Y/C)/AV1(V) I/O Setting	Set input to AV2(Y/C) and set output to AV1(V) for I/O checking	<div>AV2YC-AV1V</div>	Press [8] [1] in s mode.
AV2(V)/AV1(Y/C) I/O Setting	Set input to AV2(V) and set output to AV1(Y/C) for I/O checking	<div>AV2V-AV1 YC</div>	Press [8] [2] in s mode.
AV2(RGB)/AV1(V) I/O Setting	Set input to AV2(RGB) and set output to AV1(V) for I/O checking	<div>AV2RGB-AV1V</div>	Press [8] [3] in s mode.

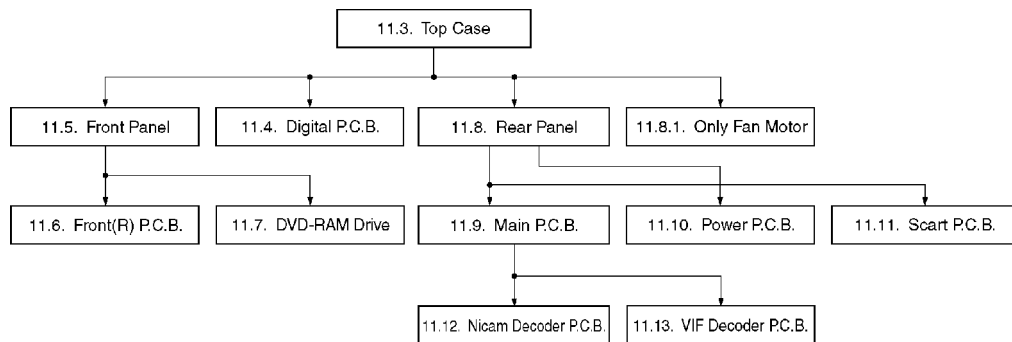
Item		FL display	Key oper: (Remote contr
Mode name	Description		
P50 (H) Output	Timer Microprocessor IC7501-22 output High signal for AV1-pin 10 passing through inverter (approx. 0V DC at AV1-pin 10).	<div>P50 HIGHOUT</div> <p>When OK.</p> <div>P50 HIGH OK</div> <p>When NG.</p> <div>P50 HIGH NG</div>	Press [8] [4] in s mode.
P50 (L) Output	Timer Microprocessor IC7501-22 output Low signal for AV1-pin 10 passing through inverter (approx. 4.4 V DC at AV1-pin 10).	<div>P50 LOW OUT</div> <p>When OK.</p> <div>P50 LOW OK</div> <p>When NG.</p> <div>P50 LOW NG</div>	Press [8] [5] in s mode.
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.	<div>NO*****</div> <p>“*” is number of open/ close cycle times.</p>	Press [9] [1] in s mode *When releasing mode, press the button on Front more than 10 se
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR E-CODE	Press [9] [8] in s mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLR SERV	Press [9] [9] in s mode.
Finishing service mode	Release Service Mode.	<p>Display in STOP (E-E) mode.</p> <div>*****</div>	Press power but front panel in se mode.

9. Assembling and Disassembling

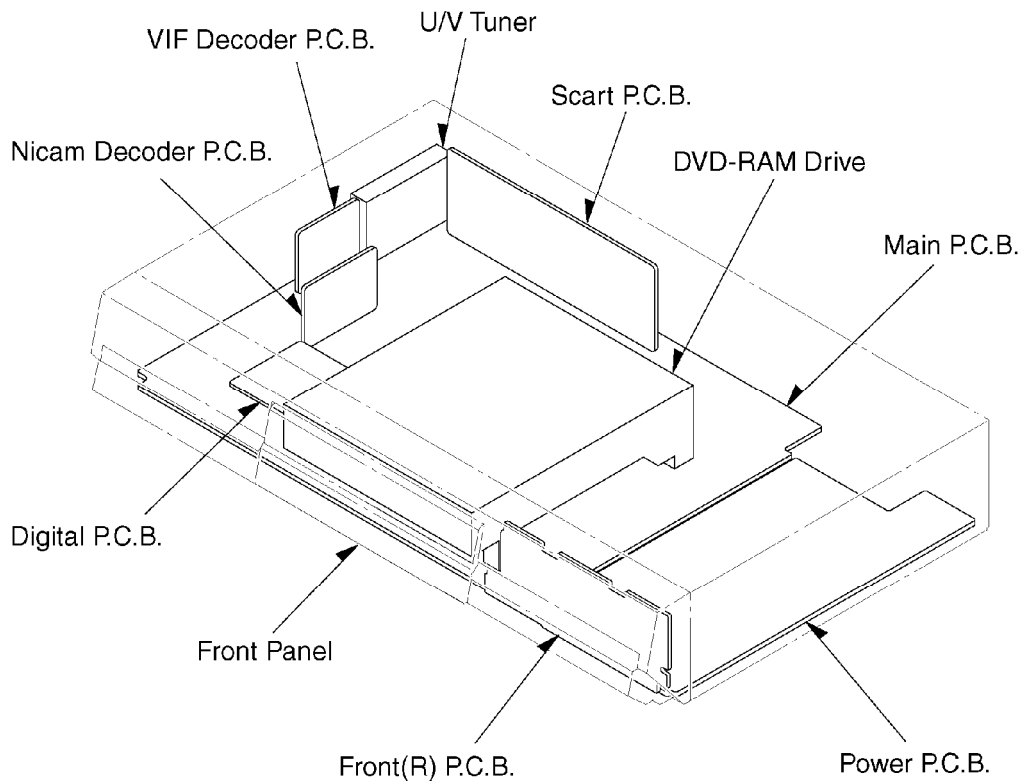
9.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.

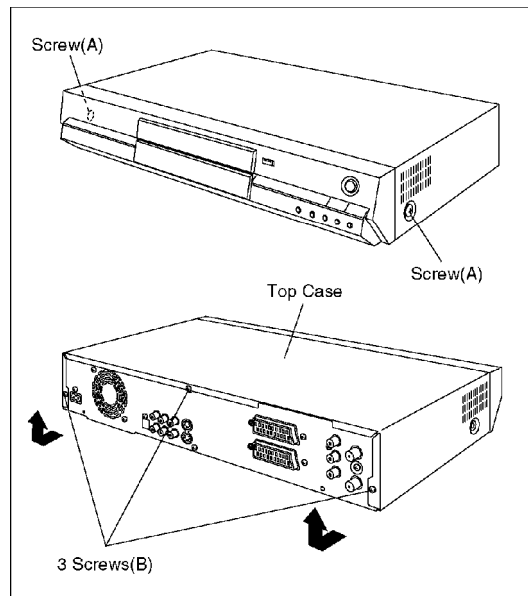


9.2. P.C.B. Positions



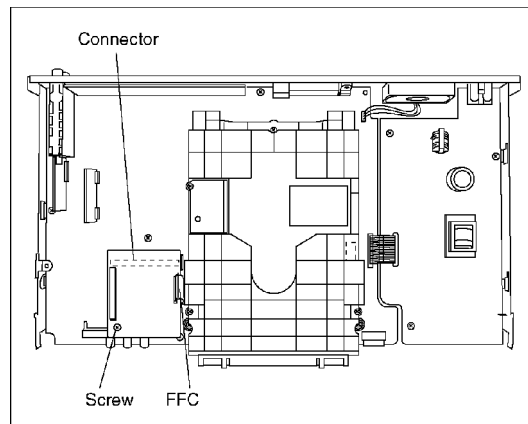
9.3. Top Case

1. Remove the 2 screws (A) and 3 screws (B).
2. Open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.



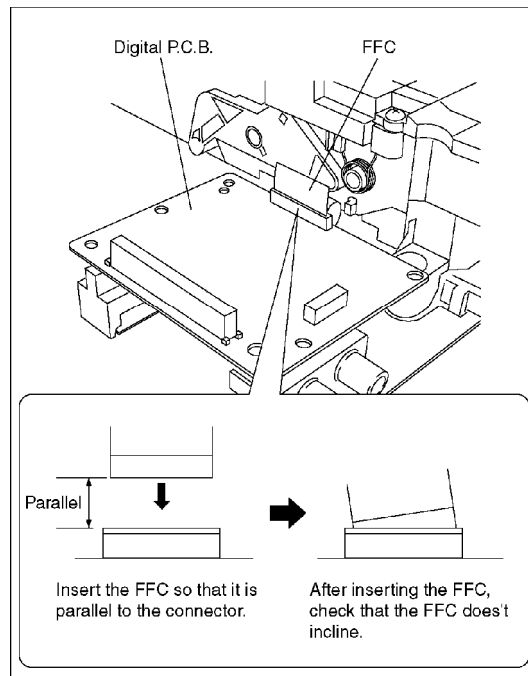
9.4. Digital P.C.B.

1. Remove the FFC and a Screw.
2. Lift up Digital P.C.B. slightly so to disconnect Connector to remove Digital P.C.B.



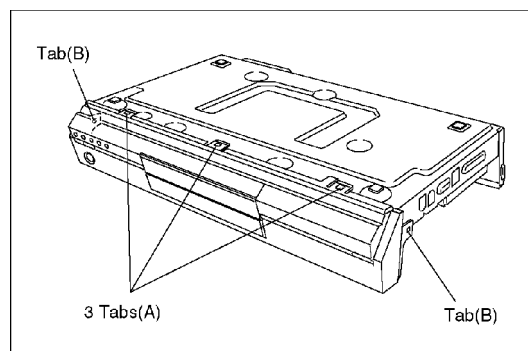
CAUTION:

When replacing Digital P.C.B., pay attention as below.

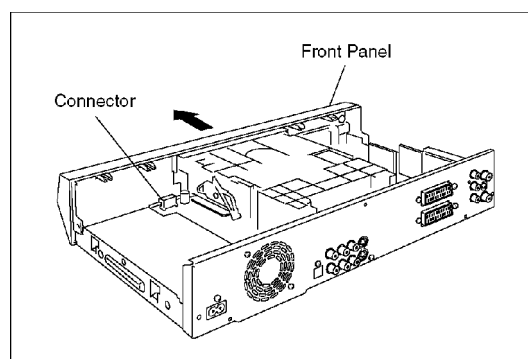


9.5. Front Panel

1. Remove 3 tabs (A) and 2 tabs (B) in this order. (The tab (A) and (B) should be removed at the same time, respectively.)

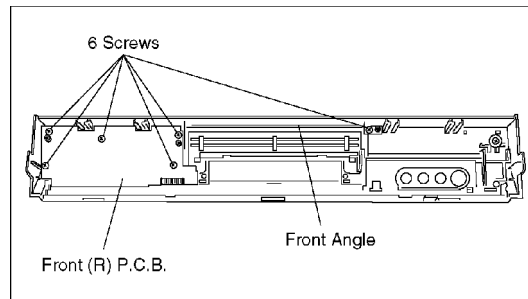


2. Move the front panel to front side straight and slowly so to remove it with Connector.



9.6. Front (R) P.C.B.

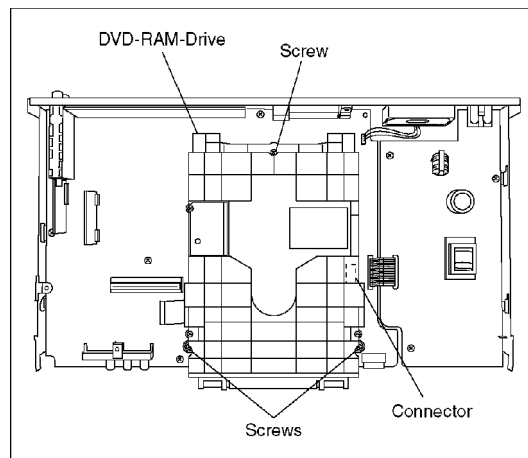
1. Remove 6 screws and Front Angle.



9.7. DVD-RAM Drive

1. Remove 3 Screws.

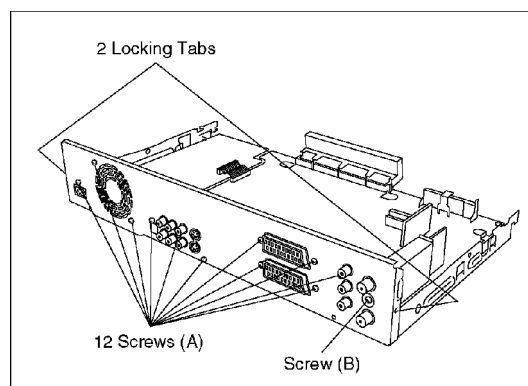
2. Pull out DVD-RAM Drive vertically so to remove it with Connector.



9.8. Rear Panel

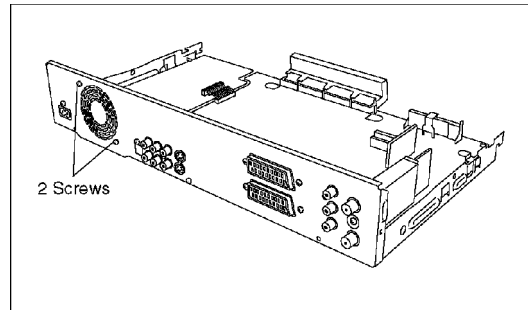
1. Remove the 12 screws (A) and screw (B).

2. Unlock 2 Locking Tabs to remove Rear Panel.

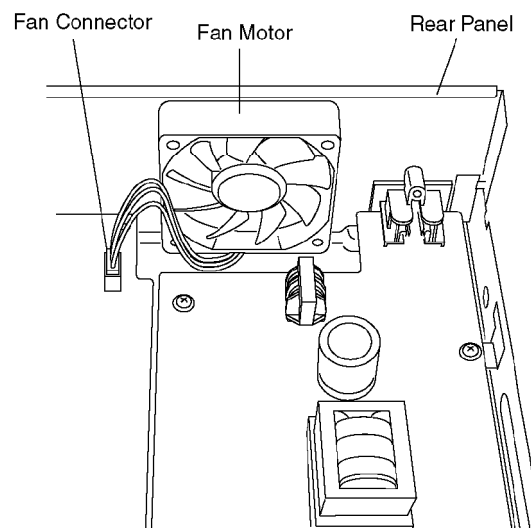


9.8.1. Only Fan Motor

1. Remove the 2 screws.

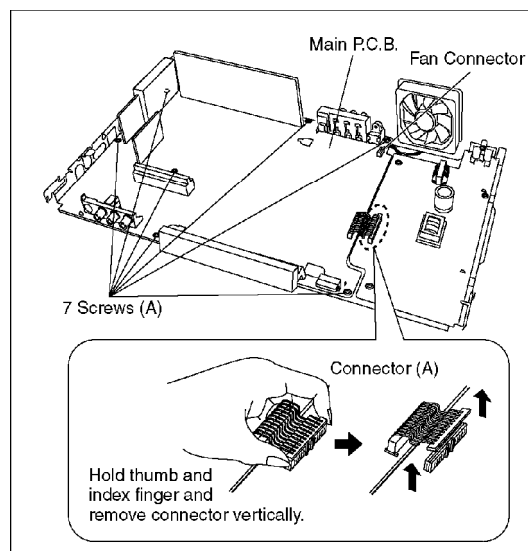


2. Remove Fan Connector to remove Fan Motor.

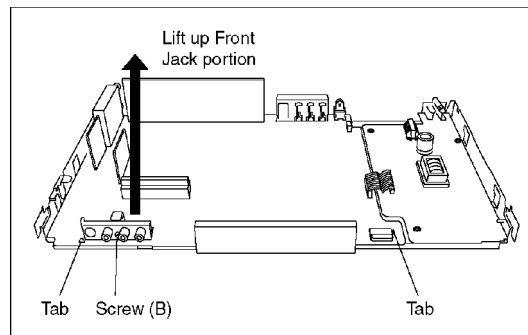


9.9. Main P.C.B.

1. Remove the 7 screws (A), Connector (A) and Fan Connector.

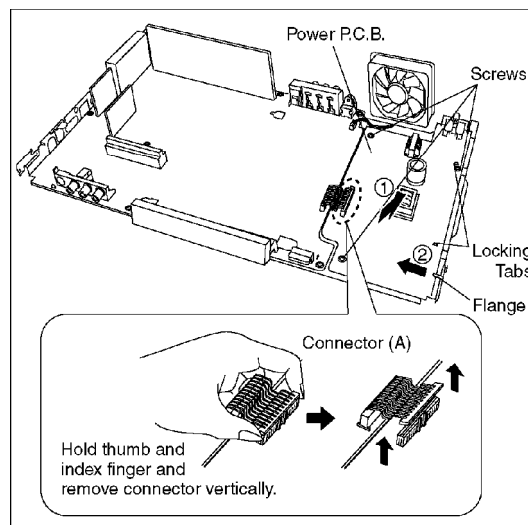


2. Remove a Screw (B) and lift up Front Jack portion of Main P.C.B. slightly so to unlock Tab to remove Main P.C.B..



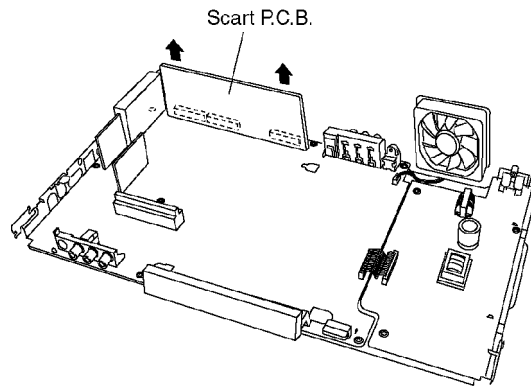
9.10. Power P.C.B.

1. Remove 3 Screws and Connector (A).
2. Lift up Power P.C.B. a little so to unlock 2 Tabs and slide Power P.C.B. so to unlock Flange to remove Power P.C.B.



9.11. The Scart P.C.B.

1. Pull out the Scart P.C.B. in the direction of the arrow.



Note:

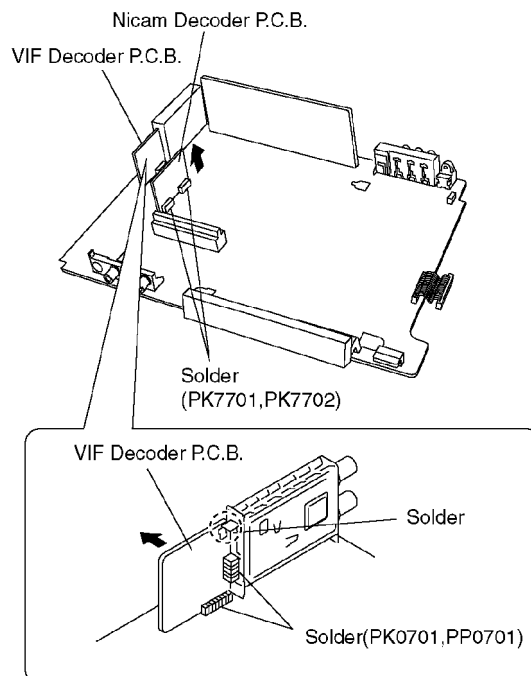
At first disconnect the connector on one side, and pull out the Scart P.C.B.



9.12. VIF Decoder P.C.B. and Nicam Decoder P.C.B.

1. Remove the solders.

2. Pull out the VIF Decoder P.C.B. and Nicam Decoder P.C.B.



10. Service Fixture and Tools

Part Number	Description	Compatibilit
RFKZ0125	Extension FFC (Digital P.C.B. - DVD-RAM Drive / 40 Pin)	Same as E50 series
RFKZ0168	Extension Cable (Main P.C.B. - Fan / 3 Pin)	Same as E50 series
RFKZ0197	Extension Cable (Main P.C.B. - DVD-RAM Drive / 8 Pin)	New
RFKZ0214	Extension Cable (MainP.C.B. - Digital P.C.B. / 88 Pin)	New
RFKZ0215	Extension Cable (MainP.C.B. - Front (R) P.C.B. / 12 Pin)	New
RFKZ0216	Extension Cable (MainP.C.B. - Power P.C.B. / 23 Pin)	New

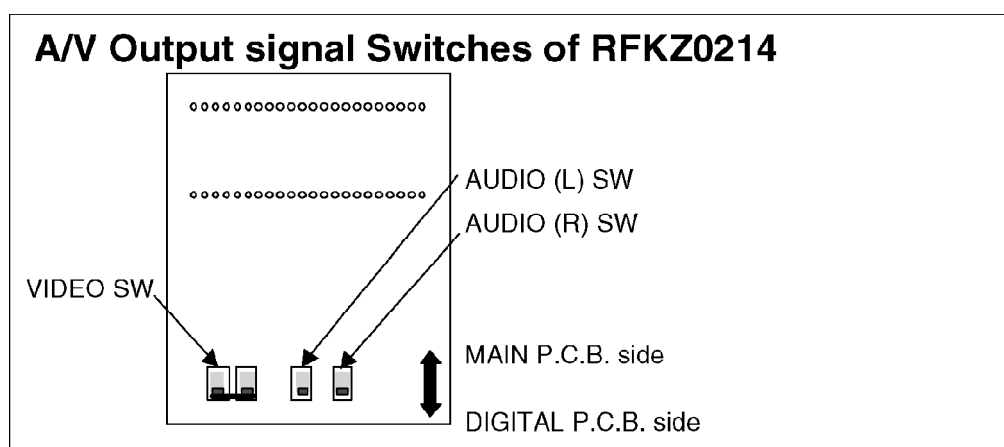
NOTE:

Extension Cable RFKZ0214 has A/V Output Signal switches.

Output signals can be switched from MAIN P.C.B. side or DIGITAL P.C.B. side.

When check MAIN P.C.B., turn switches to MAIN PCB side.

When check DIGITAL P.C.B., turn switches to DIGITAL P.C.B. side.

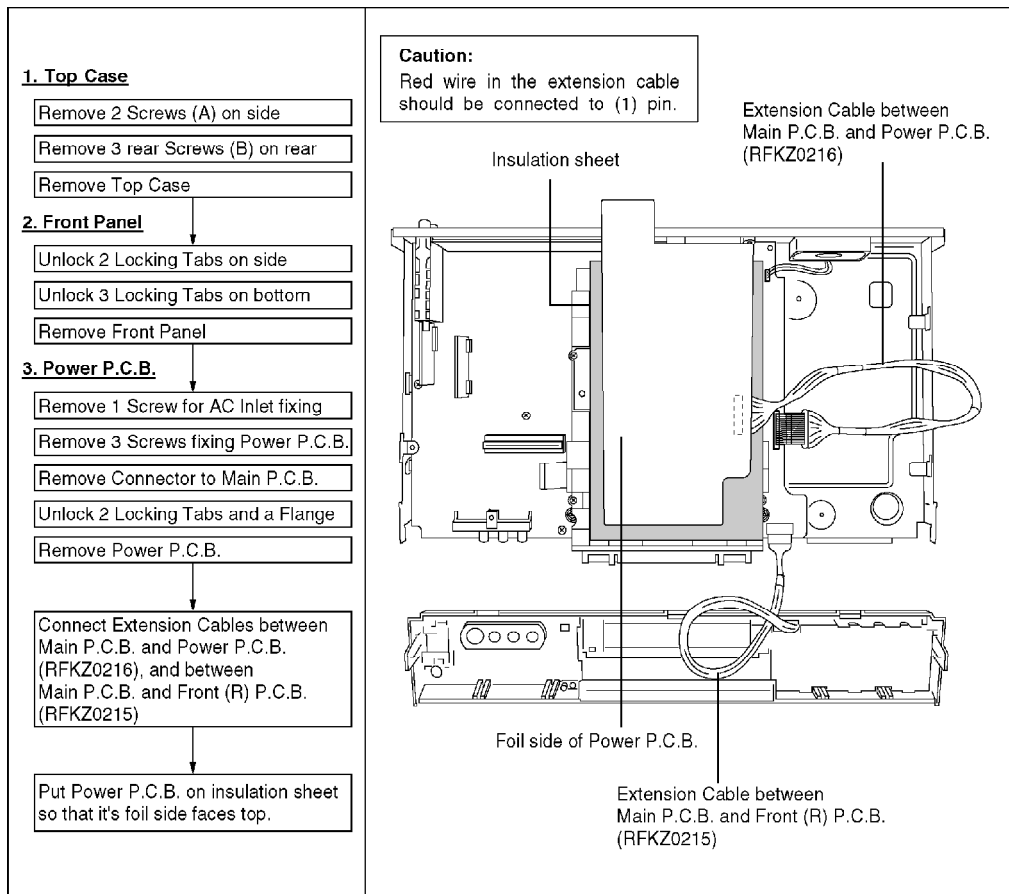


11. Service Positions

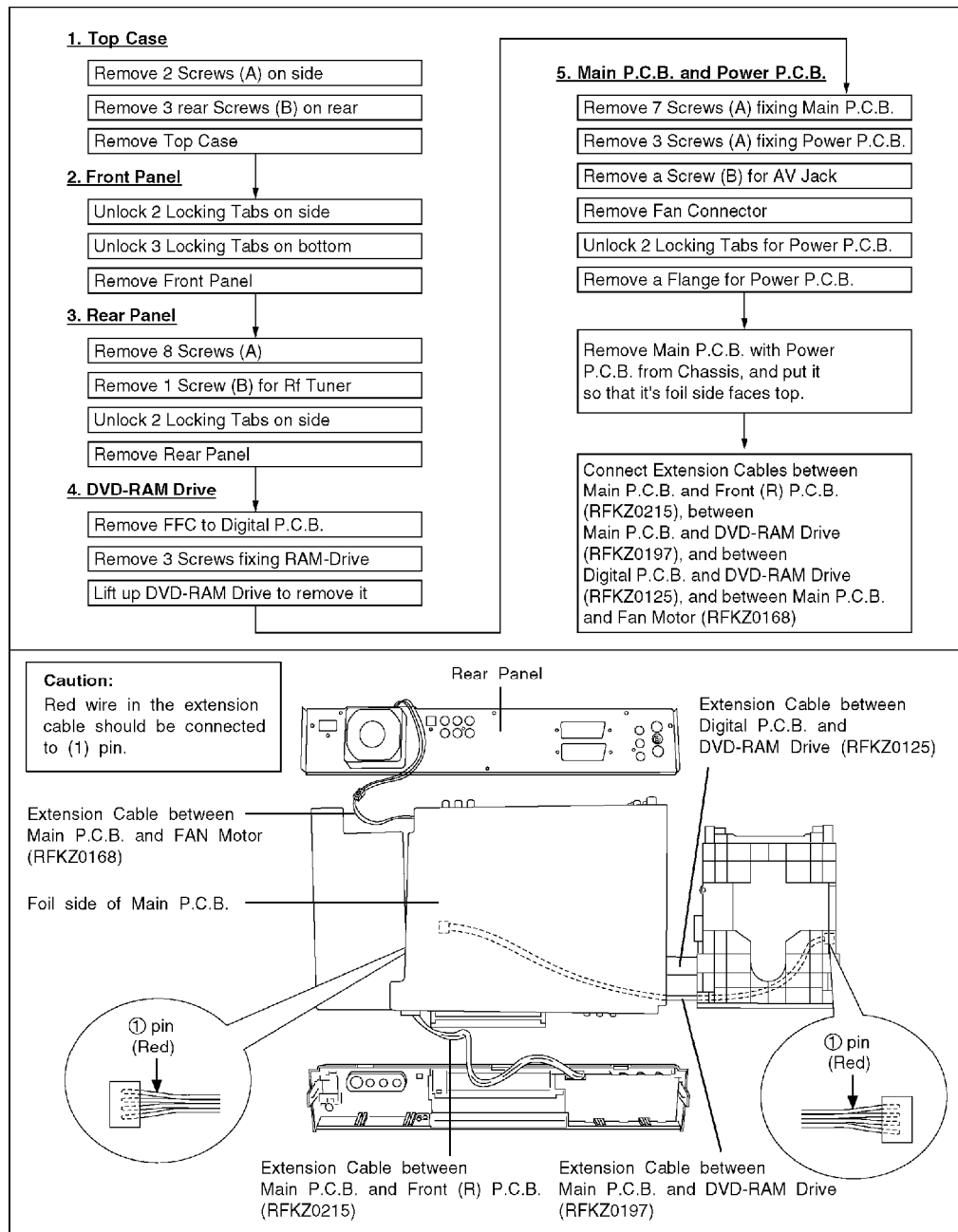
Note:

For description of the disassembling procedure, see the section 9.

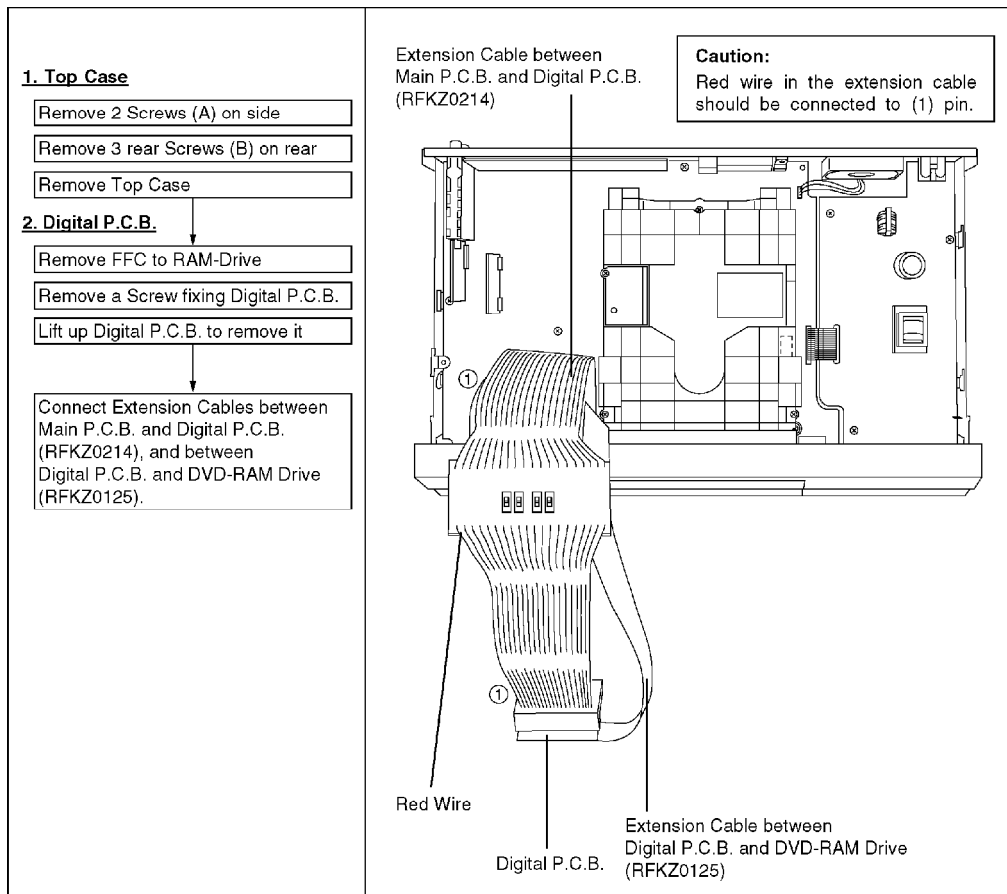
11.1. Checking and Repairing of Power P.C.B.



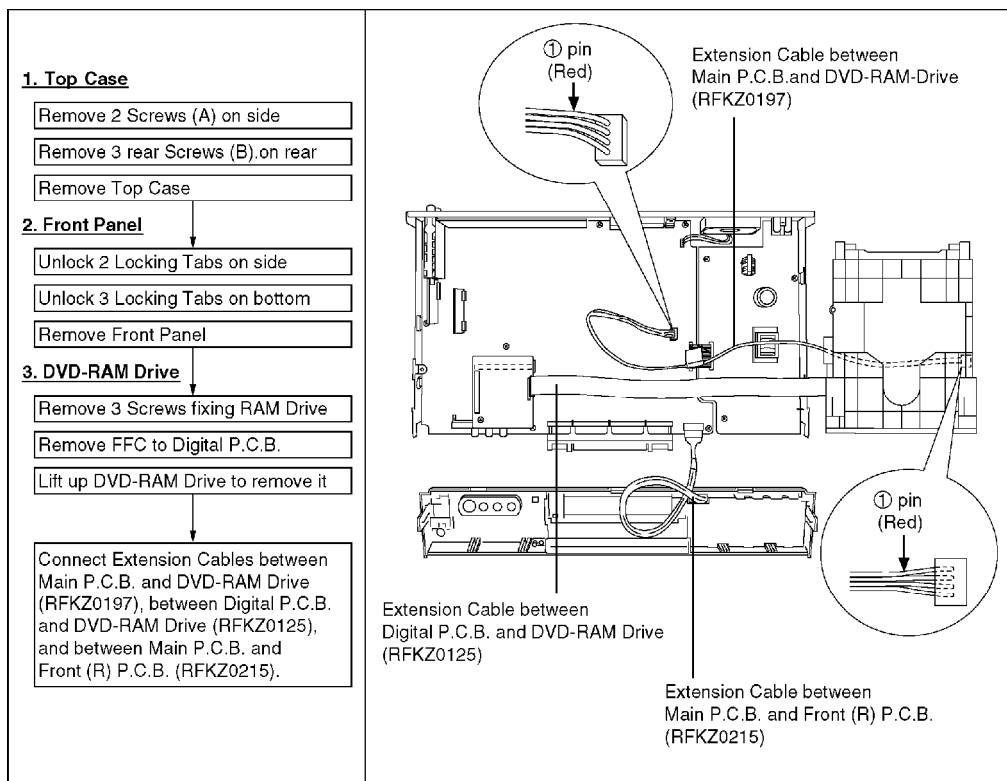
11.2. Checking and Repairing of Main P.C.B.



11.3. Checking and Repairing of Digital P.C.B.



11.4. Checking and Repairing of DVD-RAM Drive



12. Adjustment Procedures

12.1. After replacing the RAM Drive with new one

After replacing of RAM drive unit, TEST mode is not necessary. Please confirm operation for RAM drive.

12.2. When the unit does not operate normally after replacing the Timer Microprocessor with new one

in order to transmit the

Step	Operation	Descriptions
1	While power is ON, short IC7508-4 pin (RESET) and the GND.	“RESET (L)” is transmitted to the terminal of Timer Microprocessor (pin 11 pin), then the unit operates normally.

13. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.
2	Insert RAM disc.	The Panasonic RAM disc should be recognized.
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the picture sound or operation.
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the picture sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the picture sound or operation.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears on the FL displays. *[UNSUPPORT] display means the unit is updated to newest same version. Then verification is not necessary.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [CLR SERV] appears on the display. After checking it, turn the power off.
8	When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time.	Make sure that [CLR LASER] appears on the display. After that, turn power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			Noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

14. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

14.1. Power P.C.B.

14.2. Main P.C.B.

14.3. Nicam Decoder P.C.B.

14.4. Scart P.C.B.

14.5. Front (R) P.C.B.

14.6. P9001 Connector

14.7. Waveform Chart

Note:

The waveforms are measured with PAL colour bar signal.

15. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLRF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
F	FSCK	FREQUENCY SUB CARRIER
		FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	
	IREF	INTERPOLATION FLAG
	ISEL	I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	
	MDQ0~UP	MEMORY SERIAL COMMAND DATA
	MDQM	
	MLD	MEMORY DATA INPUT/OUTPUT
	MPEG	MEMORY DATA I/O MASK MEMORY SERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	
	PDVD	PLL CLOCK
	PEAK	DVD TRACKING PHASE DIFFERENCE
	PLLCLK /	
	PLLOK	CAP. FOR PEAK HOLD
	PWMCTL	CHANNEL PLL CLOCK
	PWMDA	PLL LOCK
	PWMOA, B	PWM OUTPUT CONTROL
		PULSE WAVE MOTOR DRIVEA PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA SYSTEM CLOCK

		SYSTEM CLOCK
INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLY VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

16. Block Diagram

16.1. Power Supply Block Diagram

16.2. Analog Video Block Diagram

16.3. Analog Audio Block Diagram

16.4. Timer Block Diagram

16.5. Digital Block Diagram

16.6. Digital Block IC Pin Terminal Chart (TC1-18)

17. Schematic Diagram

17.1. Interconnection Schematic Diagram

17.2. Main Power Supply Schematic Diagram

17.3. Sub Power Supply Section (Main P.C.B. (1/5)) Schematic Diagram (P)

- 17.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)**
- 17.5. Video I/O Section (Main P.C.B. (3/5)) Schematic Diagram (V)**
- 17.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)**
- 17.7. Timer Section (Main P.C.B. (5/5)) Schematic Diagram (T)**
- 17.8. Glue Net Section (Digital P.C.B. (1/4)) Schematic Diagram (GN)**
- 17.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/4)) Schematic Diagram (EN)**
- 17.10. AV Decoder/Main CPU Section (Digital P.C.B. (3/4)) Schematic Diagram (MC)**
- 17.11. Audio I/O Section (Digital P.C.B. (4/4)) Schematic Diagram (AI)**
- 17.12. VIF Decoder Schematic Diagram (For DMR-E55EB/EBL/EP)**
- 17.13. VIF Decoder Schematic Diagram (For DMR-E53EG and DMR-E55EG)**
- 17.14. Nicam Decoder Schematic Diagram**
- 17.15. Scart Schematic Diagram**
- 17.16. Front (R) Schematic Diagram**

18. Print Circuit Board

18.1. Power P.C.B.

18.2. Main P.C.B.

18.2.1. Main P.C.B. (1/4 Section)

18.2.2. Main P.C.B. (2/4 Section)

18.2.3. Main P.C.B. (3/4 Section)

18.2.4. Main P.C.B. (4/4 Section)

18.2.5. Main P.C.B. Address Information

18.3. Digital P.C.B.

18.3.1. Digital P.C.B. (Component Side)

18.3.2. Digital P.C.B. (Foil Side)

18.3.3. Digital P.C.B. Address Information

18.4. VIF Decoder P.C.B. (For DMR-E55EB/EBL/EP)

18.5. VIF Decoder P.C.B. (For DMR-E53EG and DMR-E55EG)

18.6. Nicam Decoder P.C.B.

18.7. Scart P.C.B.

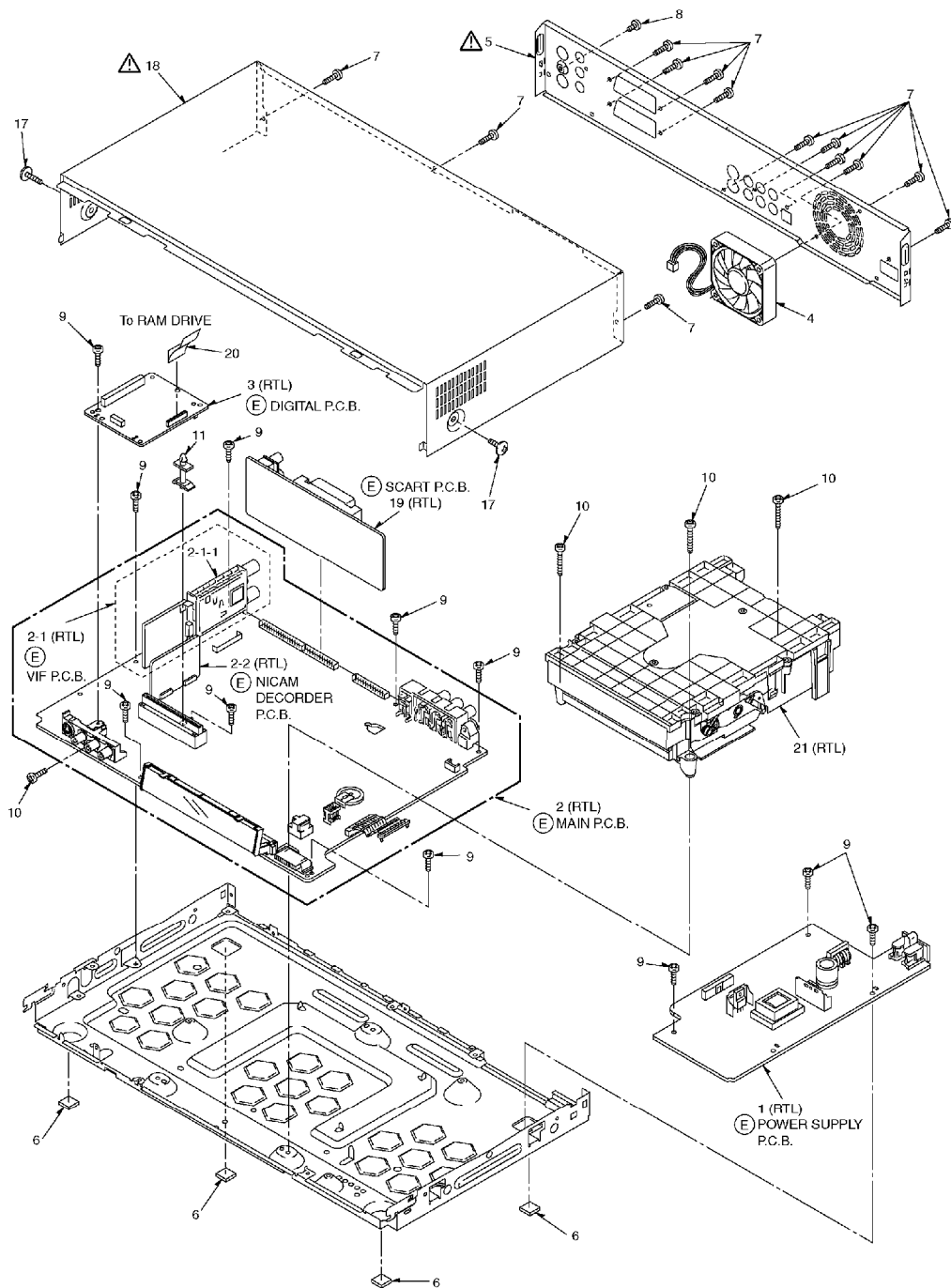
18.7.1. Scart P.C.B. (Section 1/2)

18.7.2. Scart P.C.B. (Section 2/2)

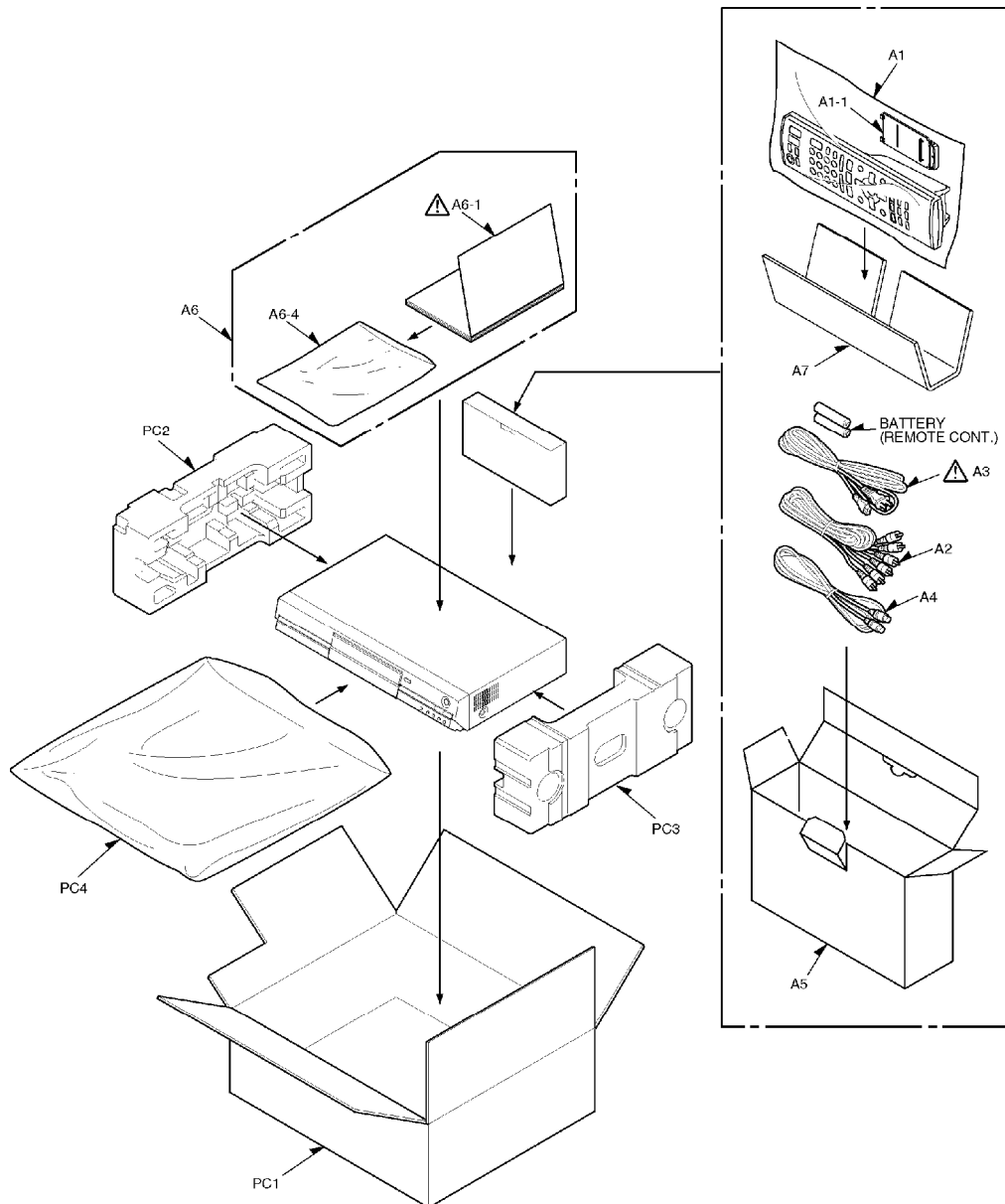
18.8. Front (R) P.C.B.

19. Exploded Views

19.1. Casing Parts & Mechanism Section 1



19.2. Casing Parts & Mechanism Section 2



20. Replacement Parts List

Notes:

*Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

*Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).








*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).






*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation

of this assembly in production, it will no longer be available.

*“<IA>”-“<IF>”, marks in Remarks indicate languages of instruction manuals. [<IA>: English/ Spanish, <IB>: German/Italian, <IC>:French/Netherlands, <ID>: Swedish/Danish, <IE>: English, <IF>: Polish] *All parts except parts mentioned [AVC-SPC] in the Remarks column are supplied from PAVCG.

Parts mentioned [AVC-SPC] are supplied from PAVC-CSG (AVC-SPC).

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	01	CASING/ACCESSORY/PACKING		
<u>1</u>	ETXMM506E4F	POWER SUPPLY P.C.B.	1	(RTL) 
<u>2</u>	REP3664A	MAIN P.C.B.	1	(RTL)EG,E53
2	REP3664B	MAIN P.C.B.	1	(RTL)EB
2	REP3664J	MAIN P.C.B.	1	(RTL)EBL,EP
<u>2-1</u>	VEP07A47B	VIF P.C.B.	1	(RTL)EG,E53
2-1	VEP07A71M	VIF P.C.B.	1	(RTL)EB
2-1	VEP07A71N	VIF P.C.B.	1	(RTL)EBL,EP
<u>2-1-1</u>	VMP4471	VIF ANGLE	1	
<u>2-2</u>	VEP07A51A	NICOM DECODER P.C.B.	1	(RTL)
<u>3</u>	REP3717C	DIGITAL P.C.B.	1	EG
3	RFKBE55EB	DIGITAL P.C.B.	1	EB
3	RFKBE55EBL	DIGITAL P.C.B.	1	EBL
3	RFKBE55EP	DIGITAL P.C.B.	1	EP
3	REP3717CJ	DIGITAL P.C.B.	1	E53
<u>4</u>	L6FAKCCE0002	FAN MOTOR	1	
<u>5</u>	RGR0347C-G	REAR PANEL	1	EG 
5	RGR0347C-J	REAR PANEL	1	EB 
5	RGR0347C-K	REAR PANEL	1	EBL 
5	RGR0347C1S	REAR PANEL	1	EP 
5	RGR0347C1Z	REAR PANEL	1	E53 
<u>6</u>	RKA0166-T	LEG RUBBER	4	
7	XTBS3+8JFZ1	SCREW	12	EG
7	XTBS3+8JFZ1	SCREW	14	EB,EBL,EP,E53
8	XSN3+4FZ	SCREW	1	
9	RHD30111	SCREW	11	
10	RHD30115	SCREW	5	
<u>11</u>	VMX1922	PCB SPACER	1	
<u>12</u>	RYP1224B-KJ	FRONT PANEL ASS'Y1	1	EGK
12	RYP1224B-S	FRONT PANEL ASS'Y1	1	EP
12	RYP1224B-SJ	FRONT PANEL ASS'Y1	1	EGS
12	RYP1224C-S	FRONT PANEL ASS'Y1	1	EB,EBL
12	RYP1224F-S	FRONT PANEL ASS'Y1	1	E53
<u>12-1</u>	RKF0690-K	TRAY DOOR	1	
<u>12-2</u>	RGK1777-Q	TRAY ORNAMENT	1	
<u>12-3</u>	VMB3410	BLINDER SPRING	1	
<u>12-4</u>	RGU2290A-K	OPERATION BUTTON	1	(K)
12-4	RGU2290A-S	OPERATION BUTTON	1	(S)
<u>12-5</u>	RGU2289-K	POWER BUTTON	1	(K)
12-5	RGU2289-S	POWER BUTTON	1	(S)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
12-6	RGU2291A-Q	REC BUTTON	1	
12-7	RGK1774-S	FRONT ORNAMENT(L)	1	
12-8	RGK1775-S	FRONT ORNAMENT(R)	1	
12-9	RGK1773-S	REC BUTTON RING	1	
12-10	RGL0658-Q	PANEL LIGHT	1	
12-11	RKF0689B-K	PANEL DOOR	1	(K)
12-11	RKF0689B-S	PANEL DOOR	1	(S)
12-12	RGK1776-Q	FL ORNAMENT	1	
12-13	VGB0560	PANASONIC BADGE	1	
12-14	RHD26016	SCREW	1	
12-15	RMX0299	DAMPER SHEET	1	
12-16	RMX0302	DOOR DAMPER	1	
13	REP3713A	FRONT(R) P.C.B.	1	(RTL)
14	RMC0595	EARTH PLATE	1	
15	RMA1778	FRONT ANGLE	1	
16	XTBS26+10J	SCREW	6	
17	RHD30113	SCREW	2	(S)
17	RHD30113-K	SCREW	2	(K)
18	RKM0508-KJ	TOP COVER	1	(K) 
18	RKM0508-SJ	TOP COVER	1	(S) 
19	REP3682A	SCART P.C.B.	1	(RTL)
20	VWJ1724	FFC(42P)	1	
21	VXY1855	RAM DRIVE UNIT	1	(RTL)<AVC-SPC> COMPATIBLE WITH VXY1794
A1	EUR7720KB0	REMOTE CONTROL ASS'Y	1	EB,EBL
A1	EUR7720KA0	REMOTE CONTROL ASS'Y	1	EG,EP,E53
A1-1	UR77EC2003A	BATTERY COVER	1	
A2	K2KA6CA00001	AV CORD	1	
A3	RJA0044-3C	AC CORD	1	EB,EBL 
A3	RJA0043-1C	AC CORD	1	EG,EP,E53 
A4	K1TWACC00001	RF COAXIAL CABLE	1	
A5	VPK2246	ACCESSORY BOX	1	
A6	RQF5516	FAN BAG ASS'Y	1	EG,E53 
A6	RQF5521	FAN BAG ASS'Y	1	EB,EBL 
A6	RQF5524	FAN BAG ASS'Y	1	EP 
A6-1	RQT7535-E	OPERATING INSTRUCTIONS	1	<IA>EG,E53 
A6-1	RQT7536-D	OPERATING INSTRUCTIONS	1	<IB>EG,E53 
A6-1	RQT7537-H	OPERATING INSTRUCTIONS	1	<IC>EG,E53 
A6-1	RQT7538-J	OPERATING INSTRUCTIONS	1	<ID>EG,E53 
A6-1	RQT7540-B	OPERATING INSTRUCTIONS	1	<IE>EB,EBL 
A6-1	RQT7541-R	OPERATING INSTRUCTIONS	1	<IF>EP 
A6-4	XZB24X37C04X	POLYETHYLENE BAG(F.B)	1	
A7	RPQ1594	PAD	1	
PC1	RPG6989	PACKING CASE	1	EB,EBL
PC1	RPG6991	PACKING CASE	1	EP
PC1	RPG7187	PACKING CASE	1	E53
PC1	RPGD0012	PACKING CASE	1	EGS
PC1	RPGD0013	PACKING CASE	1	EGK

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PC2	RPND0005A	CUSHION(L)	1	
PC3	RPND0005B	CUSHION(R)	1	
PC4	VZZ0025-A	POLYETHYLENE BAG(UNIT)	1	
■	02	REP3664A/B/J		(MAIN P.C.B.)
C1503	F1H1A105A028	10V 1U	1	
C1504	F1H1C104A042	16V 0.1U	1	
C1505	F2A1A470A388	10V 47U	1	
C1512	F1H0J1050012	6.3V 1U	1	
C1513	F1H1A105A028	10V 1U	1	
C1514	F1H0J1050012	6.3V 1U	1	
C1515	F1H1C104A042	16V 0.1U	1	
C1516	F1H1A105A028	10V 1U	1	
C1518	F2A1A470A388	10V 47U	1	
C1519	F1H1C104A042	16V 0.1U	1	
C1520	F1H1A105A028	10V 1U	1	
C1521	F1H0J1050012	6.3V 1U	1	
C1522	ECJ1VC1H331J	50V 330P	1	
C1523	F1H1A105A028	10V 1U	1	
C1524	F2A1A470A388	10V 47U	1	
C1527,28	F1H0J1050012	6.3V 1U	2	
C1531	F2A1A470A388	10V 47U	1	
C1533,34	F1H0J1050012	6.3V 1U	2	
C1537	F2A1E1010067	25V 100U	1	
C1539	F2A0J102A256	6.3V 1000U	1	
C1540	F2A1E4700048	25V 47U	1	
C1541	F2A1A471A211	10V 470U	1	
C1543	F2A1E221A210	25V 220U	1	
C3003	F1H1H1030006	50V 0.01U	1	
C3004	ECEA0JKA221B	6.3V 220U	1	
C3005	F1H1C333A041	16V 0.033U	1	
C3006	F1H1C104A042	16V 0.1U	1	
C3007	F1H1H1030006	50V 0.01U	1	
C3009,10	F1H1H1030006	50V 0.01U	2	
C3012-17	F1H1H1030006	50V 0.01U	6	
C3018	ECEA0JKA101B	6.3V 100U	1	
C3019-21	F1H1H1030006	50V 0.01U	3	
C3022	ECEA0JKA220B	6.3V 22U	1	
C3023	ECEA0JKN470B	6.3V 47U	1	
C3024	ECEA0JKA220B	6.3V 22U	1	
C3025-29	ECEA0JKN470B	6.3V 47U	5	
C3030,31	F1H1H1030006	50V 0.01U	2	
C3032	ECEA0JKA331Q	6.3V 330U	1	
C3033	ECEA1CKA220B	16V 22U	1	
C3034	ECEA0JKA331Q	6.3V 330U	1	
C3035	ECEA1CKA220B	16V 22U	1	
C3036	ECEA0JKA331Q	6.3V 330U	1	
C3037	ECEA1CKA220B	16V 22U	1	
C3038	F1H1C104A042	16V 0.1U	1	
C3039	F1H0J1050012	6.3V 1U	1	
C3040	F1H1H1030006	50V 0.01U	1	
C3041	ECEA0JKA221B	6.3V 220U	1	
C3042	F1H0J1050012	6.3V 1U	1	

00074	111001000012	000110	1	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3045,46	ECEA0JKN470B	6.3V 47U	2	
C3047	F1H1C104A042	16V 0.1U	1	
C3048	F2A0J102A016	6.3V 1000U	1	
C3049	ECEA0JKA101B	6.3V 100U	1	
C3051	F2A0J102A016	6.3V 1000U	1	
C3052	ECEA0JKA101B	6.3V 100U	1	
C3053	F2A0J102A016	6.3V 1000U	1	
C3054	ECEA0JKA101B	6.3V 100U	1	
C3055,56	ECEA0JKA331Q	6.3V 330U	2	
C3057-60	ECJ1VC1H471J	50V 470P	4	
C3061,62	F1H1H4700004	50V 47P	2	
C3064	F1H1C104A042	16V 0.1U	1	
C3065	F1H1H1030006	50V 0.01U	1	
C3066,67	F1H0J1050012	6.3V 1U	2	
C3069-71	F1H1H1030006	50V 0.01U	3	
C4001,02	F2A1H4R7A236	50V 4.7U	2	EB
C4003,04	F1H1H1030006	50V 0.01U	2	
C4005-07	F2A1H1R0A236	50V 1U	3	
C4008	F2A1C221A019	16V 220U	1	
C4010	F2A1H1R0A236	50V 1U	1	
C4011	F2A1H100A236	50V 10U	1	EB
C4012	ECJ2VB1E104K	25V 0.1U	1	
C4012	F1J1E104A081	25V 0.1U	1	EB,EBL,EP,E53
C4013	F2A1H1R0A236	50V 1U	1	EB
C4014	F2A1H100A236	50V 10U	1	
C4015	F2A1H1R0A236	50V 1U	1	EB
C4017	F2A1H100A236	50V 10U	1	
C4019	F2A1C100A019	16V 10U	1	
C4021	F2A1C100A019	16V 10U	1	
C4022	F1H1C104A042	16V 0.1U	1	
C4023	F2A1H1R0A236	50V 1U	1	
C4024	F2A1C471A236	16V 470U	1	
C4025	F2A1H1R0A236	50V 1U	1	
C4026	F1H1C104A008	16V 0.1U	1	
C4027	F2A1H1R0A236	50V 1U	1	
C4029	F2A1C471A236	16V 470U	1	
C4030	F1H1C104A008	16V 0.1U	1	
C4031	F2A1H1R0A236	50V 1U	1	
C4033,34	F2A1C4700011	16V 47U	2	
C4039,40	ECJ1VC1H100D	50V 10P	2	
C4052	F1H1C104A008	16V 0.1U	1	
C4053	F1H1C104A042	16V 0.1U	1	
C4054	F2A0J470A179	6.3V 47U	1	
C4055	F1H1C104A008	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	F1J1H680A025	50V 68P	1	
C4059	ECQV1H104JL3	50V 0.1U	1	
C4060	F1J1H680A025	50V 68P	1	
C4061	F1H1C104A008	16V 0.1U	1	
C4062	F2A1A221A206	10V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	F1H1C104A008	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4069	F1H1C104A008	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4070	F2A1A221A206	10V 220U	1	
C4072	F2A1A221A206	10V 220U	1	
C4074,75	F1H1C104A008	16V 0.1U	2	
C4076	F2A1C471A236	16V 470U	1	
C4077	F1H1C104A008	16V 0.1U	1	
C4082,83	ECJ2VC1H561J	50V 560P	2	
C4091	F1H1C104A008	16V 0.1U	1	
C4092	F2A1C221A019	16V 220U	1	
C7401	F2A1C471A236	16V 470U	1	
C7402	F1H1H1030006	50V 0.01U	1	
C7403	ECEA0JKA470B	6.3V 47U	1	EG
C7403	F2A0J470A179	6.3V 47U	1	EB,EBL,EP,E53
C7404	ECEA0JKA470B	6.3V 47U	1	
C7405,06	F1H1C104A042	16V 0.1U	2	
C7407	F1H1H1030006	50V 0.01U	1	
C7408	F1H1C104A042	16V 0.1U	1	
C7409	F1H1H1030006	50V 0.01U	1	
C7410	F1H1H1030006	50V 0.01U	1	EB
C7411,12	F1H1H1030006	50V 0.01U	2	
C7414	ECEA1HKA010B	50V 1U	1	
C7415-17	ECEA0JKA470B	6.3V 47U	3	
C7418,19	F1H1H330A736	50V 33P	2	
C7420	F1H1C104A042	16V 0.1U	1	
C7421,22	F1H1H1030006	50V 0.01U	2	
C7423	ERJ3GEY0R00V	1/10W 0	1	EG,EBL,EP,E53
C7424	ECEA0JKA470B	6.3V 47U	1	
C7425	F1H1H1010005	50V 100P	1	EBL,EP
C7425	F1H1H330A736	50V 33P	1	EG,E53
C7426	F1H1C104A042	16V 0.1U	1	
C7427	F1H1H222A219	50V 2200P	1	
C7428	ECJ2VB1E103K	25V 0.01U	1	
C7428	F1J1H1030007	50V 0.01U	1	EB,EBL,EP,E53
C7429	ECJ1VB1H332K	50V 3300P	1	EB
C7429	F1H1C104A042	16V 0.1U	1	EG,EBL,EP,E53
C7429	F1H1H332A219	50V 3300P	1	EB
C7431-33	ECEA0JKA470B	6.3V 47U	3	
C7434	F1H1H330A736	50V 33P	1	EG,E53
C7439	F1H1C104A042	16V 0.1U	1	
C7440	ECEA0JKA470B	6.3V 47U	1	
C7441	F1H1C104A042	16V 0.1U	1	
C7502-04	F2A0J470A012	6.3V 47U	3	
C7507	F4D55473A005	CAPACITOR	1	
C7508,09	ECJ1VC1H221J	50V 220P	2	
C7511	F1H1C104A008	16V 0.1U	1	
C7512	F1H1H4700004	50V 47P	1	
C7513	ECJ1VC1H471J	50V 470P	1	
C7514	F1H1H4700004	50V 47P	1	
C7515	ECJ1VC1H471J	50V 470P	1	
C7516,17	F1H1C104A042	16V 0.1U	2	
C7525	F1H1H1010005	50V 100P	1	
C7526	F1H1C104A042	16V 0.1U	1	
C7527	F2A0J470A012	6.3V 47U	1	
C7528	F1H1C104A008	16V 0.1U	1	
C7529	F2A0J470A012	6.3V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7546	F1H1C104A042	16V 0.1U	1	
C7550	F1H1H1030006	50V 0.01U	1	
C7551	F2A1H100A248	50V 10U	1	
C7552	ECJ1VF1H104Z	50V 0.1U	1	
C7555	F2A1E221A210	25V 220U	1	
C7556	F2A1C221A243	16V 220U	1	
C7558	F2A1V470A190	35V 47U	1	
C7559	ECQB1H223KF3	50V 0.022U	1	
C7560	F2A1H100A248	50V 10U	1	
C7562	F1J0J475A008	6.3V 4.7U	1	
C7563	F1H1H1010005	50V 100P	1	
C7565	F1J0J475A008	6.3V 4.7U	1	
C7566,67	F1H1C104A042	16V 0.1U	2	
C7568	F2A0J101A012	6.3V 100U	1	
C7569	F1H1C104A008	16V 0.1U	1	
C7580-82	ECJ1VC1H100D	50V 10P	3	
C7583	F1H1H1010005	50V 100P	1	
C7584,85	ECJ1VC1H180J	50V 18P	2	
C7586	ECJ1VC1H220J	50V 22P	1	
C7587	ECJ1VC1H180J	50V 18P	1	
C7588	F1H1H1030006	50V 0.01U	1	
C7589	F1H1C104A008	16V 0.1U	1	
C7590	F2A0J470A012	6.3V 47U	1	
C7592,93	ECJ1VC1H100D	50V 10P	2	
C7594	F2A0J470A012	6.3V 47U	1	
C7595	F1H1H1030006	50V 0.01U	1	
C7596	F1H1H4700004	50V 47P	1	
C7597	F1H1H1030006	50V 0.01U	1	
C7598	F1H1H4700004	50V 47P	1	
C7599	F1H1C104A042	16V 0.1U	1	
C7600	F1H1H4700004	50V 47P	1	
C7601	F1H1C104A042	16V 0.1U	1	
C7602	F1H1H1030006	50V 0.01U	1	
C7603	F2A0J470A012	6.3V 47U	1	
C7604	F1H1C104A042	16V 0.1U	1	
C7605,06	ECJ1VC1H100D	50V 10P	2	
C7607	F1H1H1030006	50V 0.01U	1	
C7608	F2A0J470A012	6.3V 47U	1	
C7609,10	ECJ1VC1H100D	50V 10P	2	
C7611-13	F1H1H1030006	50V 0.01U	3	
C7618	F1H1C104A042	16V 0.1U	1	
C7620	F1H1H1030006	50V 0.01U	1	
C7626	F1H1H1030006	50V 0.01U	1	
C7633	F2A0J101A012	6.3V 100U	1	
C7636	F1H0J1050012	6.3V 1U	1	
C7637	F1H1H1030006	50V 0.01U	1	
C7639	F1H1C104A008	16V 0.1U	1	
C7646	F1H1H1030006	50V 0.01U	1	
C7650	F1H1H1030006	50V 0.01U	1	
C7652	F1H1C104A042	16V 0.1U	1	
D1501	B0EADD000002	DIODE	1	
D4001	B0EADD000002	DIODE	1	
D4005,06	MA3Z142D0LG	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7401	B0EADD000002	DIODE	1	
D7402	MAZ4300NMF	DIODE	1	
D7403	B0EADD000002	DIODE	1	
D7501	MAZ4240NMF	DIODE	1	
D7502	B0AAGM000007	DIODE	1	
D7504,05	MA2C18500E	DIODE	2	
D7506	MAZ4300NLF	DIODE	1	
D7507	B0ACCK000005	DIODE	1	
D7508	B0JDCE000002	DIODE	1	
DP7501	A2BD00000074	FL DISPLAY TUBE	1	
DU7402	ENG47328G1Y	TUNER	1	EB
DU7402	ENG47329G1Y	TUNER	1	EBL,EP
DU7402	ENV57G04H6	TUNER PACK	1	EG,E53
IC1502	C0DBAHG00013	IC	1	
IC1505	C0CBCDD00008	IC	1	
IC1506	C0CBCDD00002	IC	1	
IC1507	C0CBCDD00006	IC	1	
IC1508	C0DBEGD00002	IC	1	
IC1509	C0DBEFG00003	IC	1	
IC1510	C0DBEGG00003	IC	1	
IC3001	C1AB00001918	IC	1	EB,EG,EP,E53
IC3001	C1AB00001979	IC	1	EBL
IC3002	C1AB00001486	IC	1	
IC3003	C9ZB00000377	IC	1	
IC4001	C1AB00001920	IC	1	
IC4005	C0JBAB000178	IC	1	
IC4006	K7AAB000013	IC	1	
IC4007	C0JBAA000134	IC	1	
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJE00003	IC	1	
IC4011	C0CBCDD00002	IC	1	
IC4012	C0ABBB000118	IC	1	
IC4013	AN78L09M-E1	IC	1	
IC7401	C0DBZJE00003	IC	1	
IC7402	C0DBCHD00002	IC	1	
IC7403	C0DBZHG00016	IC	1	
IC7501	C2CBJG000382	IC	1	EG
IC7501	C2CBJG000434	IC	1	EB,EBL,EP,E53
IC7502	C0HBB0000033	IC	1	
IC7503	C0EBJ0000110	IC	1	
IC7504	C3EBJC000038	IC	1	
IC7505	C0EBE0000194	IC	1	
IC7506	C0ABBA000073	IC	1	
IC7508	C0EBE0000218	IC	1	
IP7501	D4FAR4000001	IC PROTECTOR	1	
JK3001	K1U822B00003	JACK,AV IN/OUT	1	
JK7501	K1U415B00001	JACK,AV3	1	
K7401	ERJ3GEY0R00V	1/10W 0	1	EBL,EP

1000	1000000	1000000	1000000	1000000
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
K7508	ERJ3GEY0R00V	1/10W 0	1	
K7510	ERJ3GEY0R00V	1/10W 0	1	
K7511	ERJ3GEY0R00V	1/10W 0	1	EB,EBL,EP,E53
K7514,15	ERJ3GEY0R00V	1/10W 0	2	
L1501	G0A220G00018	COIL 22UH	1	
L4002	ELESN220KA	COIL 22UH	1	
L7401	G0A220G00018	COIL 22UH	1	
L7402	G0C270JA0019	COIL 27UH	1	EB
L7403	G0C2R2JA0019	COIL 2.2UH	1	
LB1501	J0JHC0000032	COIL	1	
LB1503	J0JHC0000032	COIL	1	
LB1504,05	J0JKB0000003	COIL	2	
LB3002-04	J0JHC0000032	COIL	3	
LB3005	J0JBC0000011	COIL	1	
LB3006	J0JGC0000020	COIL	1	
LB3007	J0JBC0000011	COIL	1	
LB3008	J0JGC0000020	COIL	1	
LB4001	J0JGC0000020	COIL	1	
LB7401	J0JCC0000120	COIL	1	EB
LB7402	J0JHC0000032	COIL	1	
LB7403	J0JHC0000032	COIL	1	EB
LB7404-09	J0JHC0000032	COIL	6	
LB7501,02	ERJ3GEY0R00V	1/10W 0	2	
LB7503	J0JKB0000037	COIL	1	
LB7504	J0JGC0000020	COIL	1	
LB7506,07	J0JGC0000020	COIL	2	
LB7508	J0JCC0000060	COIL	1	
LB7509-11	J0JGC0000020	COIL	3	
LB7512-14	J0JCC0000103	COIL	3	
LB7515,16	J0JBC0000011	COIL	2	
P1501	K1KA08A00427	CONNECTOR(8P)	1	
P1502	K1KA23A00003	CONNECTOR(23P)	1	
P7402	K1KA88A00002	CONNECTOR(88P)	1	
P7503	K1KA03A00173	CONNECTOR(3P)	1	
P7504	K1KB12B00049	CONNECTOR(12P)	1	
PP7401	K1KA20A00203	CONNECTOR(20P)	1	
PP7402	K1KA18A00041	CONNECTOR(18P)	1	
PP7403	K1KA15A00064	CONNECTOR(15P)	1	
PP7501	K1KA08A00163	CONNECTOR(8P)	1	EG
PP7502	K1KA12A00136	CONNECTOR(12P)	1	EG
Q3006,07	2SB1218A0L	TRANSISTOR	2	
Q3009,10	2SB1218A0L	TRANSISTOR	2	
Q4004	2SB1218A0L	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SD1819ARL	TRANSISTOR	1	
Q7402	2SB1218A0L	TRANSISTOR	1	
Q7404-06	2SD0601ARN	TRANSISTOR	3	
Q7503	2SD1994BR1VT	TRANSISTOR	1	
Q7505	2SB0709ARL	TRANSISTOR	1	


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q7506	2SD1819ARL	TRANSISTOR	1	
Q7507	2SB0709ARL	TRANSISTOR	1	
Q7508	2SD1819ARL	TRANSISTOR	1	
Q7511	2SD0601ARN	TRANSISTOR	1	
Q7512	2SD0874A0L	TRANSISTOR	1	
Q7513	2SD132800L	TRANSISTOR	1	EG
Q7517	2SD0601ARN	TRANSISTOR	1	
Q7518	2SD1819ARL	TRANSISTOR	1	
QR3002,03	UNR521200L	TRANSISTOR	2	
QR4002-05	UNR521100L	TRANSISTOR	4	
QR4012	UNR511300L	TRANSISTOR	1	
QR7401-03	UNR521300L	TRANSISTOR	3	
QR7404	UNR511400L	TRANSISTOR	1	
QR7405	UNR521300L	TRANSISTOR	1	
QR7406	UNR211500L	TRANSISTOR	1	EB
QR7407	UNR221500L	TRANSISTOR	1	EB
QR7501	UNR511300L	TRANSISTOR	1	
QR7502	UNR521200L	TRANSISTOR	1	
QR7503	UNR521400L	TRANSISTOR	1	
QR7507	UNR511300L	TRANSISTOR	1	EG
QR7508	UNR521300L	TRANSISTOR	1	EG,E53
R1501	ERJ3GEYJ822V	1/10W 8.2K	1	
R1502	ERJ3GEYJ332V	1/10W 3.3K	1	
R1503	ERJ3GEYJ101V	1/10W 100	1	
R1503	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R1504	ERDS2TJ271T	1/4W 270	1	
R1506	ERDS2TJ271T	1/4W 270	1	
R1507	ERJ3RED330V	1/16W 33	1	
R1508	ERJ3RBD201V	1/16W 200	1	
R1509	ERJ3RBD102V	1/16W 1K	1	
R1510	ERJ3RED220V	1/16W 22	1	
R1511	ERJ3RBD182V	1/16W 1.8K	1	
R1512	ERJ3RBD202V	1/16W 2K	1	
R1515,16	ERDS2TJ271T	1/4W 270	2	
R3026	ERJ3RED150V	1/16W 15	1	
R3027,28	ERJ3RBD471V	1/16W 470	2	
R3029	ERJ3RBD104V	1/16W 100K	1	
R3030	ERJ3GEYJ105V	1/10W 1M	1	
R3034,35	ERJ3GEY0R00V	1/10W 0	2	EBL,EP
R3037	ERJ3GEYJ102V	1/10W 1K	1	
R3038	ERJ3GEYJ101V	1/10W 100	1	
R3038	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R3044	ERJ3GEYJ330V	1/10W 33	1	
R3045,46	ERJ3GEYJ221V	1/10W 220	2	
R3047	ERJ3RBD153V	1/16W 15K	1	
R3048	ERJ3RBD182V	1/16W 1.8K	1	
R3049	ERJ3RED330V	1/16W 33	1	
R3050	ERJ3RBD182V	1/16W 1.8K	1	
R3051	ERJ3RED330V	1/16W 33	1	
R3052,53	ERJ3GEYJ102V	1/10W 1K	2	
R3054-59	ERJ6GEYJ750V	1/8W 75	6	
R3060	ERJ3GEYJ750V	1/10W 75	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4001	ERJ6GEYJ102V	1/8W 1K	1	
R4002	ERJ3GEYJ103V	1/10W 10K	1	
R4004	ERJ3GEYJ103V	1/10W 10K	1	
R4005,06	ERJ3GEY0R00V	1/10W 0	2	EG,EBL,EP,E53
R4006	ERJ3GEYJ225V	1/10W 2.2M	1	EB
R4007	ERJ3GEY0R00V	1/10W 0	1	
R4008,09	ERJ3GEYJ823V	1/10W 82K	2	
R4010	ERJ3GEYJ101V	1/10W 100	1	
R4010	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R4011	ERJ3GEYJ101V	1/10W 100	1	
R4011	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R4012	ERJ3GEYJ333V	1/10W 33K	1	
R4013	ERJ6GEYJ102V	1/8W 1K	1	
R4014	ERJ3GEYJ103V	1/10W 10K	1	
R4015	ERJ6GEYJ102V	1/8W 1K	1	
R4017	ERJ3GEYJ103V	1/10W 10K	1	
R4018	ERJ3GEY0R00V	1/10W 0	1	EG,EBL,EP,E53
R4019,20	ERJ3GEYJ473V	1/10W 47K	2	
R4021,22	ERJ3GEYJ823V	1/10W 82K	2	
R4023	ERJ6GEYJ102V	1/8W 1K	1	
R4046,47	D0HB752ZA002	1/10W 7.5K	2	
R4049	ERJ3GEY0R00V	1/10W 0	1	EB
R4052	D0HB103ZA002	1/10W 10K	1	EB
R4053	D0HB103ZA002	1/10W 10K	1	
R4054	D0HB103ZA002	1/10W 10K	1	EB
R4055	D0HB153ZA002	1/10W 15K	1	
R4056	D0HB103ZA002	1/10W 10K	1	
R4057	D0HB153ZA002	1/10W 15K	1	
R4060,61	ERJ3GEYJ103V	1/10W 10K	2	EG,EBL,EP,E53
R4066,67	D0HB103ZA002	1/10W 10K	2	
R4070	ERJ3GEYJ101V	1/10W 100	1	
R4070	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R4071	ERJ3GEYJ473V	1/10W 47K	1	
R4074	ERJ3GEYJ473V	1/10W 47K	1	
R4076	ERJ3GEYJ821V	1/10W 820	1	
R4077	ERJ3GEYJ101V	1/10W 100	1	
R4077	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R4078,79	ERJ3GEYJ272V	1/10W 2.7K	2	
R4080	ERJ3GEYJ101V	1/10W 100	1	
R4080	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R4081	ERJ3GEYJ821V	1/10W 820	1	
R4087	ERJ3GEYJ102V	1/10W 1K	1	
R4088,89	ERJ3GEYJ272V	1/10W 2.7K	2	
R4090	ERJ3GEYJ221V	1/10W 220	1	
R4093	ERJ3GEYJ221V	1/10W 220	1	
R4099	ERJ3GEYJ101V	1/10W 100	1	
R4099	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7401,02	ERJ3GEYJ103V	1/10W 10K	2	
R7403	ERJ3GEYJ392V	1/10W 3.9K	1	
R7404	ERJ3GEYJ472V	1/10W 4.7K	1	
R7405	ERDS2TJ471T	1/4W 470	1	
R7406	ERJ3GEYJ223V	1/10W 22K	1	
R7407	ERJ3GEYJ103V	1/10W 10K	1	
R7408	ERJ3GEYJ153V	1/10W 15K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7409	ERJ3GEYJ271V	1/10W 270	1	EB
R7410	ERJ3GEYJ100V	1/10W 10	1	EB
R7411	ERG2SJ471E	2W 470	1	
R7412	ERJ3GEYJ681V	1/10W 680	1	
R7413,14	ERJ3GEYJ271V	1/10W 270	2	
R7415,16	ERJ3GEYJ471V	1/10W 470	2	
R7417	ERG2SJ471E	2W 470	1	
R7418	ERJ3GEYJ221V	1/10W 220	1	EBL,EP
R7419	ERJ3GEYJ151V	1/10W 150	1	EG,E53
R7420	ERJ3GEY0R00V	1/10W 0	1	EB
R7420	ERJ3GEYJ102V	1/10W 1K	1	EBL,EP
R7420	ERJ3GEYJ151V	1/10W 150	1	EG,E53
R7421	ERJ3GEYJ101V	1/10W 100	1	
R7421	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7422	ERJ3GEYJ101V	1/10W 100	1	
R7422	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7423	ERJ3GEYJ562V	1/10W 5.6K	1	EB
R7427	ERJ3GEYJ102V	1/10W 1K	1	
R7428	ERJ3GEYJ333V	1/10W 33K	1	
R7429	ERJ3GEYJ223V	1/10W 22K	1	
R7430	ERJ3GEYJ102V	1/10W 1K	1	
R7431	ERJ3GEYJ333V	1/10W 33K	1	
R7432	ERJ3GEYJ223V	1/10W 22K	1	
R7433	ERJ3GEYJ102V	1/10W 1K	1	
R7434	ERJ3GEYJ333V	1/10W 33K	1	
R7435	ERJ3GEYJ223V	1/10W 22K	1	
R7436,37	ERJ3GEYJ221V	1/10W 220	2	EG,E53
R7438-42	ERJ3GEYJ220V	1/10W 22	5	
R7443	ERJ3GEYJ101V	1/10W 100	1	EG,E53
R7443	ERJ3GEYJ101Z	1/10W 100	1	E53
R7444	ERJ3GEY0R00V	1/10W 0	1	EB,EG,E53
R7444	ERJ3GEYJ681V	1/10W 680	1	EBL,EP
R7505	ERJ3RBD273V	1/16W 27K	1	
R7507	ERDS2TJ331T	1/4W 330	1	
R7508	ERDS2TJ5R6T	1/4W 5.6	1	
R7510	ERJ3GEYJ332V	1/10W 3.3K	1	
R7513	ERJ3GEYJ473V	1/10W 47K	1	
R7514	ERJ3GEYJ101V	1/10W 100	1	
R7514	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7516	ERJ3GEYJ102V	1/10W 1K	1	
R7517	ERJ3GEYJ104V	1/10W 100K	1	
R7518	ERJ3GEYJ392V	1/10W 3.9K	1	
R7519	ERJ3GEYJ102V	1/10W 1K	1	
R7520	ERJ3GEYJ104V	1/10W 100K	1	
R7521	ERJ3GEYG152V	1/10W 1.5K	1	
R7522	ERJ3GEYG562V	1/10W 5.6K	1	
R7523	ERJ3GEYG153V	1/10W 15K	1	
R7529,30	ERJ3GEYJ223V	1/10W 22K	2	
R7531	ERJ3GEYJ103V	1/10W 10K	1	
R7532	ERJ3GEYJ472V	1/10W 4.7K	1	
R7533	ERJ3GEYJ223V	1/10W 22K	1	
R7534	ERJ3GEYJ101V	1/10W 100	1	
R7534	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7535	ERJ3GEYJ101V	1/10W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7535	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7536	ERJ3GEYJ101V	1/10W 100	1	
R7536	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7537	ERJ3GEYJ101V	1/10W 100	1	
R7537	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7538	ERJ3GEYJ472V	1/10W 4.7K	1	
R7539	ERJ3GEYJ104V	1/10W 100K	1	
R7540	ERJ3GEYJ332V	1/10W 3.3K	1	
R7541	ERJ3GEY0R00V	1/10W 0	1	
R7542	ERJ3GEYJ103V	1/10W 10K	1	
R7543	ERJ3GEYJ101V	1/10W 100	1	
R7543	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7544	ERJ3GEYJ101V	1/10W 100	1	
R7544	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7545	ERJ3GEYJ101V	1/10W 100	1	
R7545	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7546,47	ERJ3GEYJ472V	1/10W 4.7K	2	
R7548	ERJ3GEYJ101V	1/10W 100	1	
R7548	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7549	ERJ3GEYJ511V	1/10W 510	1	
R7550,51	ERJ3GEYJ202V	1/10W 2K	2	
R7552	ERJ3GEYJ101V	1/10W 100	1	
R7552	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7553	ERJ3GEYJ472V	1/10W 4.7K	1	
R7554	ERJ3GEYJ101V	1/10W 100	1	
R7554	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7556	ERJ3GEYJ101V	1/10W 100	1	
R7556	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7557	ERJ3GEYJ101V	1/10W 100	1	
R7557	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7558	ERJ3GEYJ101V	1/10W 100	1	
R7558	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7559	ERJ3GEYJ101V	1/10W 100	1	
R7559	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7561	ERDS2TJ392T	1/4W 3.9K	1	
R7563	ERJ3GEYJ101V	1/10W 100	1	
R7563	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7569	ERJ3GEYJ101V	1/10W 100	1	
R7569	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7571	ERJ3GEYJ101V	1/10W 100	1	
R7571	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7572	ERJ3GEYJ101V	1/10W 100	1	
R7572	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7573	ERJ3GEYJ101V	1/10W 100	1	
R7573	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7574	ERJ3GEYJ101V	1/10W 100	1	
R7574	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7575	ERJ3GEYJ101V	1/10W 100	1	
R7575	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7576	ERJ3GEYJ101V	1/10W 100	1	
R7576	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7577	ERJ3GEYJ101V	1/10W 100	1	
R7577	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7578	ERJ3GEYJ101V	1/10W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7578	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7579,80	ERJ3GEYJ221V	1/10W 220	2	
R7581	ERJ3GEYG393V	1/10W 39K	1	
R7582	ERJ3GEYG433V	1/10W 43K	1	
R7583,84	ERJ3GEYJ473V	1/10W 47K	2	
R7585,86	ERJ3GEYJ223V	1/10W 22K	2	
R7588	ERJ3GEYJ472V	1/10W 4.7K	1	
R7589-91	ERJ3RBD822V	1/16W 8.2K	3	
R7593	ERJ3GEYJ103V	1/10W 10K	1	EG
R7594	ERJ3GEYJ223V	1/10W 22K	1	
R7595,96	ERJ3GEYJ473V	1/10W 47K	2	
R7597	ERJ3GEYJ153V	1/10W 15K	1	
R7598	ERJ3GEYJ181V	1/10W 180	1	
R7599	ERJ3GEYJ223V	1/10W 22K	1	
R7600,01	ERJ3GEYJ103V	1/10W 10K	2	
R7602	ERJ3GEYJ821V	1/10W 820	1	
R7603	ERJ3GEYJ183V	1/10W 18K	1	
R7604-06	ERJ3GEYJ750V	1/10W 75	3	
R7607	ERJ3GEYJ223V	1/10W 22K	1	
R7608	ERJ3GEYJ104V	1/10W 100K	1	
R7611	ERJ3GEYJ101V	1/10W 100	1	
R7611	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7612	ERJ3GEYJ101V	1/10W 100	1	
R7612	ERJ3GEYJ101Z	1/10W 100	1	
R7613	ERJ3GEYJ101V	1/10W 100	1	
R7613	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7620	ERJ3GEYJ223V	1/10W 22K	1	
R7621	ERJ3GEYJ101V	1/10W 100	1	
R7621	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7625	ERJ3GEYJ101V	1/10W 100	1	
R7625	ERJ3GEYJ101Z	1/10W 100	1	
R7626	ERJ3GEYJ101V	1/10W 100	1	
R7626	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7627	ERJ3GEYJ101V	1/10W 100	1	
R7627	ERJ3GEYJ101Z	1/10W 100	1	
R7628	ERJ3GEYJ101V	1/10W 100	1	
R7628	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7629	ERJ3GEYJ101V	1/10W 100	1	
R7629	ERJ3GEYJ101Z	1/10W 100	1	
R7630	ERJ3GEYJ101V	1/10W 100	1	
R7630	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7631,32	ERJ3GEYJ102V	1/10W 1K	2	
R7633	ERJ3RBD103V	1/16W 10K	1	
R7634	ERJ3GEYJ101V	1/10W 100	1	
R7634	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7635-37	ERJ3GEYJ103V	1/10W 10K	3	
R7638	ERJ3GEYJ472V	1/10W 4.7K	1	
R7639	ERJ3GEYJ473V	1/10W 47K	1	
R7640	ERJ3GEYJ225V	1/10W 2.2M	1	
R7641	ERJ3GEYJ273V	1/10W 27K	1	
R7642	ERJ3GEYJ224V	1/10W 220K	1	
R7643	ERJ3GEYJ104V	1/10W 100K	1	
R7644	ERJ3GEYJ221V	1/10W 220	1	
R7645	ERJ3GEYJ104V	1/10W 100K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7646	ERJ3GEYJ101V	1/10W 100	1	
R7646	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7647	ERJ3GEYJ101V	1/10W 100	1	
R7647	ERJ3GEYJ101Z	1/10W 100	1	EB,EBL,EP,E53
R7649	ERJ3GEY0R00V	1/10W 0	1	EG,E53
R7670	ERJ3GEYJ472V	1/10W 4.7K	1	EG,E53
S7501	K0F111B00044	SWITCH,POWER	1	
T7501	ETS13TB119AP	TRANSFORMER	1	
W500-05	ERJ3GEY0R00V	1/10W 0	6	
W507-23	ERJ3GEY0R00V	1/10W 0	17	
W529,30	ERJ3GEY0R00V	1/10W 0	2	
W534-37	ERJ3GEY0R00V	1/10W 0	4	
W538,39	ERJ6GEY0R00Z	1/8W 0	2	
W540-42	ERJ3GEY0R00V	1/10W 0	3	
X7501	H0D100500016	CRYSTAL OSCILLATOR	1	
X7502	H0A327200026	OSCILLATOR	1	
ZJ3001	K9ZZ00000424	EARTH ANGLE	1	
ZJ7401-04	K9ZZ00000424	EARTH ANGLE	4	
ZJ7501	K9ZZ00000424	EARTH ANGLE	1	
	03	VEP07A47B/VEP07A71M/N		(VIF P.C.B.)
C0701	ECEA1HKA010B	50V 1U	1	EB,EBL,EP
C0701	F1H1H1030007	50V 0.01U	1	EG,E53
C0702	ECJ2VC1H151J	50V 150P	1	EG,E53
C0702	ERJ3GEYJ102V	1/10W 1K	1	EB,EBL,EP
C0703	ECEA1HKA010B	50V 1U	1	EB,EBL,EP
C0703	F1H1H1030007	50V 0.01U	1	EG,E53
C0704	ECJ1VB1E683K	25V 0.0683U	1	EB,EBL,EP
C0704	ECJ2VC1H270J	50V 27P	1	EG,E53
C0705	F1H1E104A050	25V 0.1U	1	EB,EBL,EP
C0705	F1H1H1030007	50V 0.01U	1	EG,E53
C0706	ECJ2VB1H333K	50V 0.033U	1	EB,EBL,EP
C0706	ECJ2VF1H103Z	50V 0.01U	1	EG,E53
C0707	ECEA1HKAR47B	50V 0.47U	1	EB,EBL,EP
C0707,08	F1H1H1030007	50V 0.01U	2	EG,E53
C0709,10	F1H1H1030007	50V 0.01U	2	
C0711	ECEA1CKA220B	16V 22U	1	EB,EBL,EP
C0712	F1H1C104A008	16V 0.1U	1	EB,EBL,EP
C0712	F1J1C4740012	16V 0.47U	1	EG,E53
C0713	ECEA0JKA101B	6.3V 100U	1	EB,EBL,EP
C0714	F1H1H1030007	50V 0.01U	1	EG,E53
C0714	F1J1C1050030	16V 1U	1	EB,EBL,EP
C0715	F1H1H1030007	50V 0.01U	1	EG,E53
C0716	ECJ1VC1H391J	50V 390P	1	EG,E53
C0717	ECJ1VC1H180J	50V 18P	1	EBL,EP
C0717	F1H1H1030007	50V 0.01U	1	EG,E53
C0719	F1J1C4740012	16V 0.47U	1	EG,E53

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C0720	F1H1H1030007	50V 0.01U	1	EG,E53
C0721	ECJ2VC1H330J	50V 33P	1	EB
C0721	ECJ2VC1H470J	50V 47P	1	EBL,EP
C0721	F1H1H1030007	50V 0.01U	1	EG,E53
C0722	F1J1H1040007	50V 0.1U	1	EG,E53
C0723	ECEA1CKA101B	16V 100U	1	EG,E53
C0724	ECJ2VF1H103Z	50V 0.01U	1	EB,EBL,EP
C0725	ECEA1HKA2R2B	50V 2.2U	1	EG,E53
C0725	ECJ1VC1H030C	50V 3P	1	EBL,EP
C0725	F1H1H120A230	50V 12P	1	EB
C0726	ECJ1VB1H152K	50V 1500P	1	EG,E53
C0727	ECJ1VC1H390J	50V 39P	1	EB,EBL,EP
C0728	ECEA1HKA0R1B	50V 0.1U	1	EG,E53
C0728	ECJ1VC1H560J	50V 56P	1	EB
C0729	F1H1H1030007	50V 0.01U	1	EG,E53
C0730	ECEA1CKA220B	16V 22U	1	EG,E53
C0730	ECJ1VC1H220J	50V 22P	1	EB
C0732	F1H1H1010005	50V 100P	1	EB,EBL,EP
C0733	ECEA1HKAR22B	50V 22U	1	EG,E53
C0734	ECJ1VB1H152K	50V 1500P	1	EG,E53
C0735	F1H1H1030007	50V 0.01U	1	EG,E53
C0738	ECJ1VC1H390J	50V 39P	1	EG,E53
C0739	F1H1H470A230	50V 47P	1	EG,E53
C0740	ERJ3GEY0R00V	1/10W 0	1	EG,E53
C0741	F1H1H1030007	50V 0.01U	1	EG,E53
C0742	F1H1H4700004	50V 47P	1	EG,E53
C0743	ECJ1VC1H180J	50V 18P	1	EG,E53
D0701	MA3Z080D0L	DIODE	1	EG,E53
D0703	MA3Z080E0L	DIODE	1	EG,E53
IC0701	C1AB00001598	IC	1	EG,E53
IC0701	C1AB00001924	IC	1	EB,EBL,EP
K0709	ERJ3GEY0R00V	1/10W 0	1	EB,EBL,EP
L0701	ELJNAR22JF	COIL 22UH	1	EBL,EP
L0701	ELJNAR27JF	COIL 27UH	1	EB
L0702	ELJNAR18JF	COIL 18UH	1	EG,E53
L0703	ELJNA3R3JF	COIL	1	EB,EBL,EP
L0703	ELJNAR68JF	COIL 68UH	1	EG,E53
L0704-07	ELJFA151KF	COIL 150UH	4	EG,E53
LB0701	J0JBC0000041	COIL	1	EBL,EP
PK0701	K1MR09A00028	CONNECTOR(9P)	1	
PP0701	K1KA04B00135	CONNECTOR(4P)	1	
Q0702	2SB0709ARL	TRANSISTOR	1	EB,EBL,EP
Q0702	2SD0601ASL	TRANSISTOR	1	EG,E53
Q0703	2SB0709ARL	TRANSISTOR	1	EG,E53
QR0702	B1GBHBHH0002	TRANSISTOR	1	EG,E53

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R0701	ERJ3GEY0R00V	1/10W 0	1	EB
R0702	ERJ3GEYJ104V	1/10W 100K	1	EB,EBL,EP
R0703	ERJ3GEYJ102V	1/10W 1K	1	EB,EBL,EP
R0704	ERJ6GEYJ105V	1/8W 1M	1	EB,EBL,EP
R0705	ERJ6GEYJ392V	1/8W 3.9K	1	EB
R0705	ERJ6GEYJ472V	1/8W 4.7K	1	EBL,EP
R0706	ERJ3GEYJ223V	1/10W 22K	1	EG,E53
R0707	ERJ3GEYJ393V	1/10W 39K	1	EB,EBL,EP
R0707	ERJ6GEYJ223V	1/8W 22K	1	EG,E53
R0708	ERJ3GEYJ223V	1/10W 22K	1	EB,EBL,EP
R0708	ERJ6GEYJ562V	1/8W 5.6K	1	EG,E53
R0709	ERJ3GEY0R00V	1/10W 0	1	EBL,EP
R0709,10	ERJ6GEYJ223V	1/8W 22K	2	EG,E53
R0711	ERJ3GEYJ510V	1/10W 51	1	EB,EBL,EP
R0711	ERJ3GEYJ562V	1/10W 5.6K	1	EG,E53
R0713	ERJ3GEYG181V	1/10W 180	1	EG,E53
R0714	ERJ3GEYJ103V	1/10W 10K	1	EBL,EP
R0715	ERJ3GEYJ223V	1/10W 22K	1	EB,EBL,EP
R0717	ERJ3GEYG562V	1/10W 5.6K	1	EG,E53
R0719	ERJ3GEYJ472V	1/10W 4.7K	1	EB,EBL,EP
R0722	ERJ3GEYJ562V	1/10W 5.6K	1	EG,E53
R0724	ERJ8GEYJ151V	1/4W 150	1	EG,E53
R0725	ERJ6GEYJ101Z	1/8W 100	1	EB,EBL,EP
R0726	ERJ3GEYJ332V	1/10W 3.3K	1	EB,EBL,EP
R0726	ERJ3GEYJ561V	1/10W 560	1	EG,E53
R0727	ERJ6GEYJ101Z	1/8W 100	1	EG,E53
R0728	ERJ3GEY0R00V	1/10W 0	1	EB
R0729	ERJ3GEYJ103V	1/10W 10K	1	EB
R0731	ERJ3GEYJ101V	1/10W 100	1	EBL,EP
R0732	ERJ3GEY0R00V	1/10W 0	1	EBL,EP
R0732	ERJ8GEYJ102V	1/4W 1K	1	EG,E53
R0733	ERJ3GEYG393V	1/10W 39K	1	EG,E53
R0734	ERJ3GEYG682V	1/10W 6.8K	1	EG,E53
R0735	ERJ3GEYJ101V	1/10W 100	1	EG,E53
R0737	ERJ6GEYJ101Z	1/8W 100	1	EG,E53
R0738	ERJ3GEY0R00V	1/10W 0	1	
R0740	ERJ3GEYJ271V	1/10W 270	1	EBL,EP
R0740	ERJ3GEYJ471V	1/10W 470	1	EB
R0741	ERJ3GEYJ221V	1/10W 220	1	EB,EBL,EP
R0741	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
R0742	ERJ6GEYJ471V	1/8W 470	1	EB,EBL,EP
R0743	ERJ6GEYJ820V	1/8W 82	1	EB,EBL,EP
R0747,48	ERJ3GEYJ271V	1/10W 270	2	EB,EBL,EP
R0750	ERJ6GEYG562V	1/8W 5.6K	1	EG,E53
R0755,56	ERJ6GEYJ101Z	1/8W 100	2	EG,E53
R0757	ERJ3GEYJ752V	1/10W 7.5K	1	EG,E53
VR0701	EVNCYAA03B14	V.R.	1	
W1	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W1	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP
W2	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W2	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W3	ERJ3GEY0R00V	1/10W 0	1	EG,E53
W3	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP
W4	ERJ3GEY0R00V	1/10W 0	1	EG,E53
W4	ERJ6GEY0R00Z	1/8W 0	1	EB,EBL,EP
W5,W6	ERJ8GEY0R00V	1/4W 0	2	
W7	ERJ6GEY0R00Z	1/8W 0	1	EB,EBL,EP
W7	ERJ8GEY0R00V	1/4W 0	1	EG,E53
W8	ERJ6GEY0R00Z	1/8W 0	1	
W9	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W9	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP
W10	ERJ3GEY0R00V	1/10W 0	1	EB,EBL,EP
W10,11	ERJ8GEY0R00V	1/4W 0	2	EG,E53
W12	ERJ3GEY0R00V	1/10W 0	1	EB,EBL,EP
W12	ERJ8GEY0R00V	1/4W 0	1	EG,E53
W13	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W13	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP
W14	ERJ8GEY0R00V	1/4W 0	1	
W15	ERJ8GEY0R00V	1/4W 0	1	EG,E53
W16	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W16	ERJ8GEY0R00V	1/4W 0	1	EB,EBL,EP
W17	ERJ6GEY0R00Z	1/8W 0	1	EG,E53
W18,19	ERJ8GEY0R00V	1/4W 0	2	EG,E53
X0701	J0B3955A0001	CRISTAL OSCILLATOR	1	EBL,EP
X0701	J0B4155A0003	CRISTAL OSCILLATOR	1	EB
X0702	J0B4055A0001	CRISTAL OSCILLATOR	1	EBL,EP
X0704	J0B4045A0002	CRYSTAL OSCILLATOR	1	EG,E53
X0704	VLF1495	CRYSTAL OSCILLATOR	1	EB
X0704	VLF1497	FILTER	1	EBL,EP
X0706	EFCKK9453D	CAPACITOR	1	EG,E53
X0707	EFCKG3958M	CAPACITOR	1	EG,E53
ZA0701	VMP4471-1	ANGLE	1	EB,EBL,EP
■	04	VEP07A51A		(NICOM DECORDER P.C.B.)
C7301	F1H1C104A008	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/10W 0	1	
C7303	ECEA0JKA101B	6.3V 100U	1	
C7305	ECEA0JKA101B	6.3V 100U	1	
C7306	F1H1H103A220	50V 0.01U	1	
C7307,08	ECJ1VC1H100D	50V 10P	2	
C7309-11	F1H1H1010005	50V 100P	3	
C7312,13	ECEA1CKA100B	16V 10U	2	
C7314	F1H1C104A008	16V 0.1U	1	
C7317	ECEA1CKA470B	16V 47U	1	
C7318	ECEA1CKA100B	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	F1H1C104A008	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/10W 0	1	
C7330	ERJ3GEYJ822V	1/10W 8.2K	1	
C7332	F1H1C104A008	16V 0.1U	1	
C7333	F1H1C104A042	16V 0.1U	1	
C7334	ECEA1HKA2R2B	50V 2.2U	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7335	F1H1C104A008	16V 0.1U	1	
IC7301	C1AB00001404	IC	1	
IC7302	C0EAH0000051	IC	1	
K7301-03	ERJ3GEY0R00V	1/10W 0	3	
K7305	ERJ3GEY0R00V	1/10W 0	1	
L7303	G0C1R0JA0019	COIL 1UH	1	
LB7301,02	J0JCC0000124	COIL	2	
LB7303	J0JCC0000080	COIL	1	
PK7301	K1MM07B00002	CONNECTOR(7P)	1	
PK7302	K1MM06B00002	CONNECTOR(6P)	1	
R7301	ERJ3GEY0R00V	1/10W 0	1	
R7304	ERJ3GEYJ101V	1/10W 100	1	
R7307	ERJ3GEY0R00V	1/10W 0	1	
R7309	ERJ3GEYJ103V	1/10W 10K	1	
R7311	ERJ3GEYJ221V	1/10W 220	1	
R7312,13	ERJ3GEYG221V	1/10W 220	2	
R7314,15	ERJ3GEY0R00V	1/10W 0	2	
R7317	ERJ3GEY0R00V	1/10W 0	1	
R7319	ERJ3GEY0R00V	1/10W 0	1	
R7322	ERJ3GEY0R00V	1/10W 0	1	
R7324,25	ERJ3GEYJ101V	1/10W 100	2	
W6,W7	ERJ3GEY0R00V	1/10W 0	2	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
■	05	REP3682A		(SCART P.C.B.)
C3909	ECEA0JKA470B	6.3V 47U	1	
C3910,11	ECA1CAK100XB	16V 10U	2	
C3914-17	ECA1HAK010XB	50V 1U	4	
C3918,19	ECA1CAK100XB	16V 10U	2	
C3920	F1H1C104A042	16V 0.1U	1	
C3921	ECA0JAK331XQ	6.3V 330U	1	
C3922	F1H1H1030006	50V 0.01U	1	
C3923	F1H1C104A042	16V 0.1U	1	
C3924	ECA0JAK331XQ	6.3V 330U	1	
C3925	F1H1H1030006	50V 0.01U	1	
C3928,29	ECA1HAK010XB	50V 1U	2	
C3930	F1H1H1030006	50V 0.01U	1	
C3931,32	ECA1HAK010XB	50V 1U	2	
C3933	ECA1CAK101XB	16V 100U	1	
C3934	F1H1H1030006	50V 0.01U	1	
C3935	ECA1CAK101XB	16V 100U	1	
C3938	F1H1C104A008	16V 0.1U	1	
C3939	F1H1H1030006	50V 0.01U	1	
C3951,52	F1H1H4700004	50V 47P	2	
C3953,54	ECJ1VC1H471J	50V 470P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3955,56	F1H1H1010005	50V 100P	2	
C3957,58	ECJ1VC1H471J	50V 470P	2	
C3959,60	F1H1H4700004	50V 47P	2	
C3961,62	F1H1H1010005	50V 100P	2	
D3901	B0EADD000002	DIODE	1	
D3903	MA3Z142D0LG	DIODE	1	
IC3901	C1AB00001776	IC	1	
JK3901	K2HA306A0025	JACK,L1,L3	1	
JK3904	K1FB121A0003	JACK,L2	1	
JK3905	K1FB121A0003	JACK,AV1	1	
LB3907,08	J0JGC0000020	COIL	2	
LB3911-13	J0JGC0000020	COIL	3	
LB3922,23	J0JGC0000020	COIL	2	
LB3925	J0JGC0000020	COIL	1	
PS3901	K1KB20B00027	CONNECTOR(20P)	1	
PS3902	K1KB18B00012	CONNECTOR(18P)	1	
PS3903	K1KB15B00013	CONNECTOR(15P)	1	
Q3901	2SD1819ARL	TRANSISTOR	1	
Q3905	2SD132800L	TRANSISTOR	1	
Q3906	2SB0710ARL	TRANSISTOR	1	
Q3908	2SB1218A0L	TRANSISTOR	1	
Q3909,10	2SD132800L	TRANSISTOR	2	
QR3908	UNR521200L	TRANSISTOR	1	
QR3909	UNR521100L	TRANSISTOR	1	
QR3913	UNR521200L	TRANSISTOR	1	
R3901-03	ERJ3RED750V	1/16W 75	3	
R3904	ERJ3GEYJ330V	1/10W 33	1	
R3905	ERJ3GEYJ223V	1/10W 22K	1	
R3906	ERJ3GEYJ102V	1/10W 1K	1	
R3907	ERJ3GEYJ273V	1/10W 27K	1	
R3908,09	ERJ6GEYJ471V	1/8W 470	2	
R3910	ERJ3RBD151V	1/16W 150	1	
R3911,12	D0GB222JA002	1/10W 2.2K	2	
R3913	ERJ3RBD181V	1/16W 180	1	
R3914	ERJ3RBD151V	1/16W 150	1	
R3915	ERJ3GEYJ103V	1/10W 10K	1	
R3916	ERJ3GEYJ153V	1/10W 15K	1	
R3917	ERJ3GEYJ223V	1/10W 22K	1	
R3919	ERJ3RBD151V	1/16W 150	1	
R3921	ERJ6GEYG750V	1/8W 75	1	
R3922,23	ERJ6GEYJ471V	1/8W 470	2	
R3924	ERDS2TJ471T	1/4W 470	1	
R3925-28	ERJ6GEYG750V	1/8W 75	4	
R3929,30	ERJ6GEYJ471V	1/8W 470	2	
R3931-33	ERJ3RED750V	1/16W 75	3	
R3934,35	ERJ6GEYG750V	1/8W 75	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3962	ERJ3GEYJ103V	1/10W 10K	1	
R3967	ERJ3GEYJ152V	1/10W 1.5K	1	
R3968	ERJ3GEYJ680V	1/10W 68	1	
R3969	ERJ3GEYJ332V	1/10W 3.3K	1	
R3972,73	ERJ3GEYJ103V	1/10W 10K	2	
R3975	ERJ3GEYJ101V	1/10W 100	1	EG
R3975	ERJ3GEYJ101Z	1/10W 100	1	
R3976	ERJ3GEYJ101V	1/10W 100	1	EG
R3976	ERJ3GEYJ101Z	1/10W 100	1	
R3977,78	ERJ3GEYJ103V	1/10W 10K	2	
R3979,80	ERJ6GEYJ471V	1/8W 470	2	
R3981,82	ERJ3GEYJ821V	1/10W 820	2	
R3983,84	ERJ3GEYJ104V	1/10W 100K	2	
R3985	ERJ3RBD472V	1/16W 4.7K	1	
R3986	ERJ3RBD122V	1/16W 1.2K	1	
R3987	ERJ3GEYJ473V	1/10W 47K	1	
R3988,89	ERJ3GEYJ102V	1/10W 1K	2	
R3990,91	ERJ3GEYJ473V	1/10W 47K	2	
R3992,93	ERJ3GEYJ102V	1/10W 1K	2	
R3994	ERJ3GEYJ473V	1/10W 47K	1	
ZA3901-04	VMC1450	EARTH PLATE	4	
■	06	REP3717C/CJ/RFKBE55EB/EBL/EP		(DIGITAL P.C.B.)
C3401	ECJ1VB0J105K	6.3V 1U	1	<AVC-SPC>
C3402	ECJ0EC1H220J	50V 22P	1	<AVC-SPC>
C3403	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C3404,05	ECJ0EC1H220J	50V 22P	2	<AVC-SPC>
C3406	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C3407,08	ECJ0EC1H100D	50V 10P	2	<AVC-SPC>
C3410	ECJ0EB1C103K	16V 0.01U	1	<AVC-SPC>
C3411	ECST0JX476R	6.3V 47U	1	<AVC-SPC>
C3417-19	ECJ1VB0J105K	6.3V 1U	3	<AVC-SPC>
C3420	ECJ0EB1C103K	16V 0.01U	1	<AVC-SPC>
C3421	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C3422	ECJ0EB1C103K	16V 0.01U	1	<AVC-SPC>
C3423-28	ECJ0EB1A104K	10V 0.1U	6	<AVC-SPC>
C3429	ECJ2FB0J106M	6.3V 1U	1	E53 <AVC-SPC>
C3429	F1J0J106A013	6.3V 10U	1	EB,EG,EP,EBL <AVC-SPC>
C3430	ECJ2FB0J106M	6.3V 1U	1	E53 <AVC-SPC>
C3430	F1J0J106A013	6.3V 10U	1	EB,EG,EP,EBL <AVC-SPC>
C3431	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C3432	ECJ1VB0J105K	6.3V 1U	1	<AVC-SPC>
C3433	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C3435,36	ECJ0EB1A104K	10V 0.1U	2	<AVC-SPC>
C3440	EEH0B0J101P	6.3V 100P	1	<AVC-SPC>
C3441	ECJ0EB1A104K	10V 0.1U	1	<AVC-SPC>
C4402	EEH0B1C100R	16V 10P	1	<AVC-SPC>
C4403	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C4404	EEH0B0J101P	6.3V 100P	1	<AVC-SPC>
C4405,06	ECJ0EF1C104Z	16V 0.1U	2	<AVC-SPC>
C4407	EEH0B1C100R	16V 10P	1	<AVC-SPC>
C4408,09	ECJ0EF1C104Z	16V 0.1U	2	<AVC-SPC>

STATUS	LEVEL STATE	TOTALS	4	STATUS
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4410	F2H0J331A016	6.3V 330U	1	<AVC-SPC>
C4411	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C4412	EEEHB0J101P	6.3V 100P	1	<AVC-SPC>
C4415	EEEHB0J470R	6.3V 47P	1	<AVC-SPC>
C4416	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C4417	ECST1AY106R	10V 10U	1	<AVC-SPC>
C4418	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C4421	ECJ0EB1E102K	25V 1000P	1	<AVC-SPC>
C4423,24	ECJ0EB1E102K	25V 1000P	2	<AVC-SPC>
C4426	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C6001	ECJ0EF1C104Z	16V 0.1U	1	<AVC-SPC>
C6002	ECJ2FB0J106M	6.3V 1U	1	E53 <AVC-SPC>
C6002	F1J0J106A013	6.3V 10U	1	EB,EG,EP,EBL <AVC-SPC>
C6003	ECJ0EB1C103K	16V 0.01U	1	<AVC-SPC>
C9001,02	ECJ0EC1H470J	50V 47P	2	<AVC-SPC>
C50001	ECJ1VB0J105K	6.3V 1U	1	<AVC-SPC>
C50002	EEEHB0J220R	6.3V 22P	1	<AVC-SPC>
C50004,05	ECJ0EB1A104K	10V 0.1U	2	<AVC-SPC>
D3401,02	MA3S132E0L	DIODE	2	<AVC-SPC>
D4401	MA3Z142K0LG	DIODE	1	<AVC-SPC>
FL3401,02	F1H0J4740004	FILTER	2	<AVC-SPC>
FL3404	F1H0J4740004	FILTER	1	<AVC-SPC>
FL3406,07	F1H0J4740004	FILTER	2	<AVC-SPC>
FL3409-12	F1H0J4740004	FILTER	4	<AVC-SPC>
FL3414-26	F1H0J4740004	FILTER	13	<AVC-SPC>
FL3429	F1H0J4740004	FILTER	1	<AVC-SPC>
FL3431	F1H0J4740004	FILTER	1	<AVC-SPC>
FL3433-35	F1H0J4740004	FILTER	3	<AVC-SPC>
FL4401,02	F1H0J4740004	FILTER	2	<AVC-SPC>
FL6001-06	F1H0J4740004	FILTER	6	<AVC-SPC>
FL6008-17	F1H0J4740004	FILTER	10	<AVC-SPC>
FL6020-23	F1H0J4740004	FILTER	4	<AVC-SPC>
FL6701-03	F1H0J4740004	FILTER	3	<AVC-SPC>
FL50001-06	F1H0J4740004	FILTER	6	<AVC-SPC>
FP3401	K1MN40A00022	CONNECTOR(40P)	1	<AVC-SPC>
IC3401	AN13310B-VB	IC	1	<AVC-SPC>
IC3402	C3ABRG000036	IC	1	<AVC-SPC>
IC3404	MN85573R	IC	1	<AVC-SPC>
IC3406	C1DB00001110	IC	1	<AVC-SPC>
IC3408	C3ABPJ000048	IC	1	<AVC-SPC>
IC3409	C0DBZGC00066	IC	1	<AVC-SPC>
IC4402	C0FBBK000035	IC	1	<AVC-SPC>
IC4403	C0JBAD000107	IC	1	<AVC-SPC>
IC4404	C0CBCBD00002	IC	1	<AVC-SPC>
IC4405	C0ABBB000105	IC	1	<AVC-SPC>
IC4406	C0FBAK000008	IC	1	<AVC-SPC>
IC6001	MN2DS0011-HR	IC	1	<AVC-SPC>
IC6002	C0EBE0000130	IC	1	<AVC-SPC>
IC6003	C3CBLD000088	IC	1	<AVC-SPC>
IC6004	74LVC244APWL	IC	1	C0JBAZ001466 <AVC-SPC>

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC6005	C3ABQG000068	IC	1	<AVC-SPC>
IC6701	C1ZBZ0002429	IC	1	<AVC-SPC>
IC6702	REP3717C	DIGITAL P.C.B.	1	EG
IC6702	REP3717CJ	DIGITAL P.C.B.	1	E53
IC6702	RFKBE55EB	DIGITAL P.C.B.	1	EB
IC6702	RFKBE55EBL	DIGITAL P.C.B.	1	EBL
IC6702	RFKBE55EP	DIGITAL P.C.B.	1	EP
IC50001	C3ABPG000067	IC	1	E53 <AVC-SPC>
IC50001	C3ABPG000133	IC	1	EB,EG,EP,EBL <AVC-SPC>
IC50002	C3ABPG000067	IC	1	E53 <AVC-SPC>
IC50002	C3ABPG000133	IC	1	EB,EG,EP,EBL <AVC-SPC>
LB3404,05	J0JHC0000032	COIL	2	<AVC-SPC>
LB3408,09	J0JHC0000032	COIL	2	<AVC-SPC>
LB4401	J0JGC0000020	COIL	1	<AVC-SPC>
LB4402	J0JHC0000032	COIL	1	<AVC-SPC>
LB4403,04	J0JGC0000020	COIL	2	<AVC-SPC>
LB6001,02	J0JHC0000032	COIL	2	<AVC-SPC>
LB9001,02	J0JHC0000032	COIL	2	<AVC-SPC>
LB9006,07	J0JCC0000103	COIL	2	<AVC-SPC>
LB9008	J0JHC0000045	COIL	1	<AVC-SPC>
LB9009	J0JHC0000046	COIL	1	<AVC-SPC>
LB50001-05	J0JHC0000032	COIL	5	<AVC-SPC>
P6002	K1KA06A00394	CONNECTOR(6P)	1	<AVC-SPC>
P9001	K1KB88A00002	CONNECTOR(88P)	1	<AVC-SPC>
Q6001,02	B1ABCF000114	TRANSISTOR	2	<AVC-SPC>
Q6701-05	B1ABCF000114	TRANSISTOR	5	<AVC-SPC>
Q50001-05	B1ADCF000081	TRANSISTOR	5	<AVC-SPC>
QR3401	UNR521L00L	TRANSISTOR	1	<AVC-SPC>
R3405	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R3407	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R3409	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R3410,11	ERJ2GEJ101	1/16W 100	2	<AVC-SPC>
R3412	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3414	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R3415	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3416	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X <AVC-SPC>
R3417,18	ERJ2GEJ103	1/16W 10K	2	<AVC-SPC>
R3419-23	ERJ2GEJ220X	1/16W 22	5	ERJ2RMJ220X <AVC-SPC>
R3427	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3430	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3440	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R3442	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R3443-45	ERJ2GE0R00X	1/16W 0	3	<AVC-SPC>
R3447	ERJ2RHD682	1/16W 6.8K	1	<AVC-SPC>
R3448	ERJ2GEJ562X	1/16W 5.6K	1	<AVC-SPC>
R3449	ERJ2RHD682	1/16W 6.8K	1	<AVC-SPC>
R3450	ERJ2GEJ104	1/16W 100K	1	<AVC-SPC>
R3451	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3452	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3453	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R3454	ERJ2GEJ390X	1/16W 39	1	ERJ2RMJ390X <AVC-SPC>
R3455,56	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X <AVC-SPC>
R3457	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R3460-62	ERJ2GEJ470	1/16W 47	3	<AVC-SPC>
R3463	ERJ2GEJ820X	1/16W 82	1	<AVC-SPC>
R3464	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R3465	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R3466	ERJ2GEJ820X	1/16W 82	1	<AVC-SPC>
R3467	ERJ2GEJ562X	1/16W 5.6K	1	<AVC-SPC>
R3468	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R3470	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R3471	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R3472,73	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X <AVC-SPC>
R3476	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R4402-06	ERJ2GE0R00X	1/16W 0	5	<AVC-SPC>
R4407	JAR0816P103D	1/16W 10K	1	D0HB103ZA002 <AVC-SPC>
R4409	JAR0816P562D	1/16W 5.6K	1	D0HB562ZA002 <AVC-SPC>
R4411	JAR0816P103D	1/16W 10K	1	D0HB103ZA002 <AVC-SPC>
R4412	JAR0816P562D	1/16W 5.6K	1	D0HB562ZA002 <AVC-SPC>
R4414,15	ERJ3GEY0R00V	1/10W 0	2	<AVC-SPC>
R4418	ERJ2GEJ221	1/16W 220	1	<AVC-SPC>
R4419-22	ERJ2GE0R00X	1/16W 0	4	<AVC-SPC>
R4425	ERJ2GEJ562X	1/16W 5.6K	1	<AVC-SPC>
R4426-28	ERJ2GE0R00X	1/16W 0	3	<AVC-SPC>
R6001	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X <AVC-SPC>
R6002	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R6003	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R6004	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X <AVC-SPC>
R6005	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6006	ERJ2GEJ153	1/16W 15K	1	<AVC-SPC>
R6007	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X <AVC-SPC>
R6008	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6009,10	ERJ2GEJ330X	1/16W 33	2	<AVC-SPC>
R6013	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6018,19	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X <AVC-SPC>
R6020	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R6021,22	ERJ2GEJ470	1/16W 47	2	<AVC-SPC>
R6023	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R6028	ERJ2GEJ470	1/16W 47	1	<AVC-SPC>
R6029	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6031	ERJ2GEJ470	1/16W 47	1	<AVC-SPC>
R6035	ERJ2GEJ470	1/16W 47	1	<AVC-SPC>
R6036	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R6037	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X <AVC-SPC>
R6038	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6040	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R6702-04	ERJ2GEJ470	1/16W 47	3	<AVC-SPC>
R6706,07	ERJ2GEJ470	1/16W 47	2	<AVC-SPC>
R6709,10	ERJ2GEJ332X	1/16W 3.3K	2	ERJ2RMJ332X <AVC-SPC>
R6711,12	ERJ2GEJ470	1/16W 47	2	<AVC-SPC>
R6713	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6714	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X <AVC-SPC>
R6715	ERJ2GEJ470	1/16W 47	1	<AVC-SPC>




Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6718	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R6720-28	ERJ2GEJ470	1/16W 47	9	<AVC-SPC>
R6729	ERJ2GEJ104	1/16W 100K	1	<AVC-SPC>
R6730	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6731	ERJ2GEJ222X	1/16W 22K	1	ERJ2RMJ222X <AVC-SPC>
R6733	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6735	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X <AVC-SPC>
R6737,38	ERJ2GEJ470	1/16W 47	2	<AVC-SPC>
R6739	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R6741	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R6742	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X <AVC-SPC>
R6743,44	ERJ2GEJ103	1/16W 10K	2	<AVC-SPC>
R6745-51	ERJ2GEJ470	1/16W 47	7	<AVC-SPC>
R6752	ERJ2GEJ101	1/16W 100	1	<AVC-SPC>
R6753-56	ERJ2GEJ470	1/16W 47	4	<AVC-SPC>
R50001	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R50002	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R50003	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R50004	ERJ2GE0R00X	1/16W 0	1	<AVC-SPC>
R50005	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50006,07	ERJ2GEJ470	1/16W 47	2	<AVC-SPC>
R50008	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X <AVC-SPC>
R50009	ERJ2GEJ103	1/16W 10K	1	<AVC-SPC>
R50010	ERJ2RHD242	1/16W 2.4K	1	<AVC-SPC>
R50011	ERJ2RHD223X	1/16W 22K	1	<AVC-SPC>
R50012,13	ERJ2GE0R00X	1/16W 0	2	<AVC-SPC>
R50015	ERJ2RHD333	1/16W 33K	1	<AVC-SPC>
R50016	ERJ2RHD152	1/16W 1.5K	1	<AVC-SPC>
R50017	ERJ2RHD153	1/16W 15K	1	<AVC-SPC>
R50018	ERJ3RBD151	1/16W 150	1	<AVC-SPC>
R50019	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50020	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R50021	ERJ3RED820	1/16W 82	1	<AVC-SPC>
R50022	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50023	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R50024	ERJ3RED820	1/16W 82	1	<AVC-SPC>
R50025	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50026	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R50027	ERJ3RBD151	1/16W 150	1	<AVC-SPC>
R50028	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50029	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R50030	ERJ3RED220	1/16W 22	1	<AVC-SPC>
R50031	ERJ3RBD151	1/16W 150	1	<AVC-SPC>
R50032	ERJ2GEJ330X	1/16W 33	1	<AVC-SPC>
R50033	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X <AVC-SPC>
R50034,35	ERJ3RED160V	1/16W 16	2	<AVC-SPC>
RX3401-16	D1H82204A024	RESISTOR-RESISTOR	16	<AVC-SPC>
RX3419-26	D1H82204A024	RESISTOR-RESISTOR	8	<AVC-SPC>
RX3427-32	D1H81034A024	RESISTOR-RESISTOR	6	<AVC-SPC>
RX3433-44	D1H82204A024	RESISTOR-RESISTOR	12	<AVC-SPC>
RX6001	D1H81034A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6005,06	D1H83304A024	RESISTOR-RESISTOR	2	<AVC-SPC>
RX6009-26	D1H83304A024	RESISTOR-RESISTOR	18	<AVC-SPC>

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6027-32	D1H84704A024	RESISTOR-RESISTOR	6	<AVC-SPC>
RX6033,34	D1H83324A013	RESISTOR-RESISTOR	2	<AVC-SPC>
RX6035,36	D1H83334A024	RESISTOR-RESISTOR	2	<AVC-SPC>
RX6037	D1H81034A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6038	D1H83304A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6039-42	D1H85604A024	RESISTOR-RESISTOR	4	<AVC-SPC>
RX6043	D1H81034A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6044	D1H83334A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6706	D1H84704A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6708	D1H84704A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6711,12	D1H83324A013	RESISTOR-RESISTOR	2	<AVC-SPC>
RX6716	D1H84704A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6717-19	D1H83334A024	RESISTOR-RESISTOR	3	<AVC-SPC>
RX6720,21	D1H83324A013	RESISTOR-RESISTOR	2	<AVC-SPC>
RX6724	D1H84704A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6726-28	D1H84704A024	RESISTOR-RESISTOR	3	<AVC-SPC>
RX6731-34	D1H84704A024	RESISTOR-RESISTOR	4	<AVC-SPC>
RX6735	D1H82224A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6736	D1H81034A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6737	D1H84724A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX6738	D1H83334A024	RESISTOR-RESISTOR	1	<AVC-SPC>
RX50001-16	D1H84704A024	RESISTOR-RESISTOR	16	<AVC-SPC>
X3401	H0J270500069	CRYSTAL OSCILLATOR	1	<AVC-SPC>
■	07	ETXMM506E4F		(POWER SUPPLY P.C.B.)
C001	ECKENA102ME	1000P	1	⚠
C002	ECQU2A104ML	0.1U	1	⚠
C003	ECQU2A334ML	0.33	1	⚠
C006	ECKENA102ME	1000P	1	⚠
C008	KH102M	1000P	1	⚠
C009	KMM2W470JZ	450V 47	1	
C010	RR3DD331K	2KV 330P	1	
C011	ECKENA102ME	1000P	1	⚠
C012	MBC471J5	50V 470P	1	
C013	KMG1H220	50V 22U	1	
C014	MBB224K2	25V 0.22	1	
C015	MBB224K5	50V 0.22	1	
C101	KBR221K2E	250V 220P	1	
C102	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C103	KBR221K2E	250V 220P	1	
C104	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C105	KY1E471	25V 470	1	
C106	KY1A222	10V 2200	1	
C107	MBC102J5	50V 1000P	1	
C109	MBB104K2	25V 0.1U	1	
C110	MBB683K5	55V 0.068	1	
C111	MBB105K1	16V 1U	1	
C112	KY1A471	10V 470U	1	
C113	MBB105K1	16V 1U	1	
C115	MBB224K5	50V 0.22	1	

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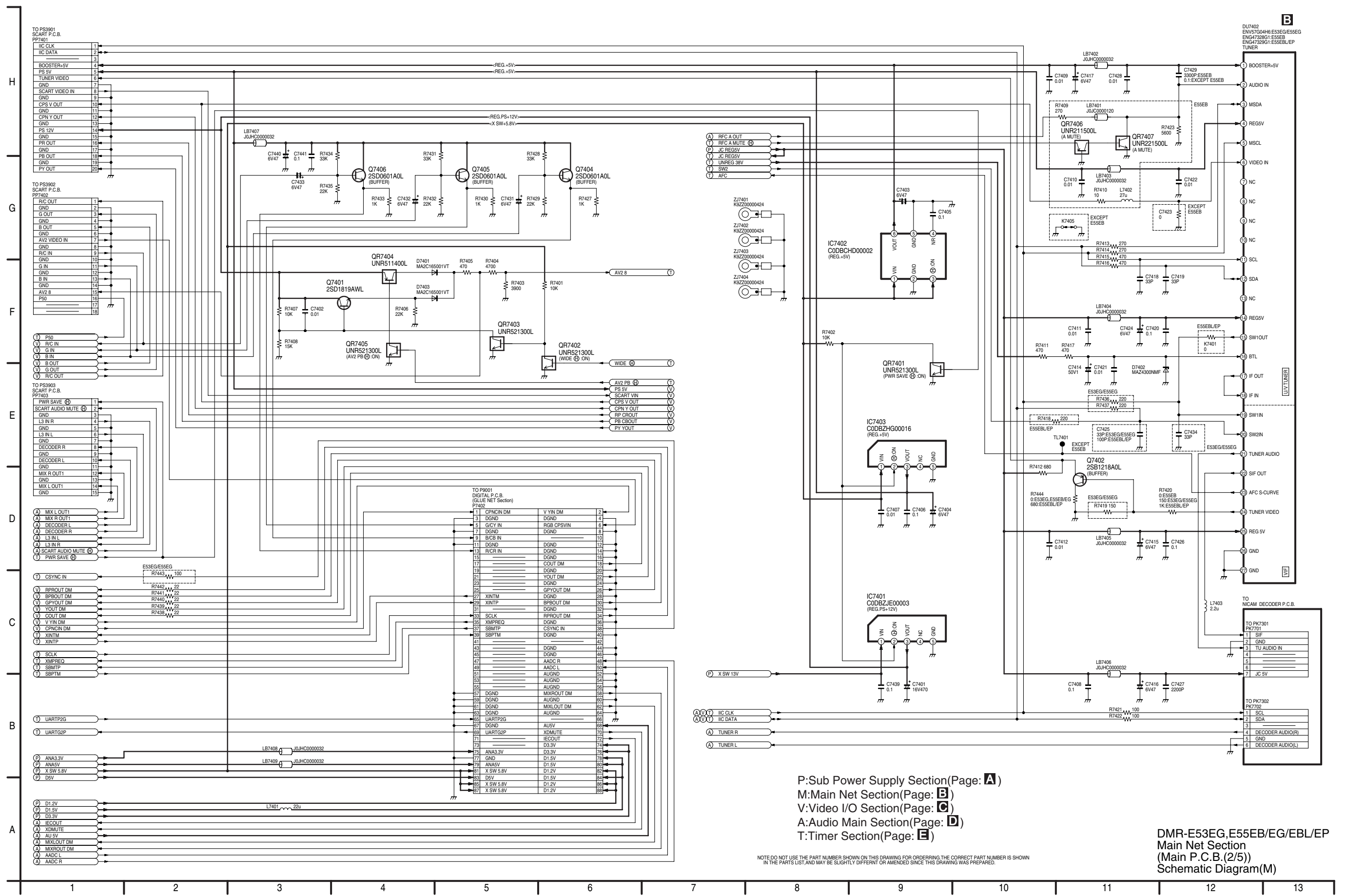
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C117	KY1E221	25V 220U	1	
C118	KMG1H100	50V 10	1	
C119	ECA1AHG102	10V 1000U	1	
C120	KY1E681L	25V 680	1	
C124	KY1E221	25V 220U	1	
C125	ECA1AHG102	10V 1000U	1	
C127	ECJ2XB1H333K	50V 0.033	1	
C128	KY1A471	10V 470U	1	
C129	MBB105K1	16V 1U	1	
C130	MBC102J5	50V 1000P	1	
C131	MBB105K1	16V 1U	1	
C141	MBB104K2	25V 0.1U	1	
C142	MBB105K1	16V 1U	1	
D001-04	GPP20J	DIODE	4	
D005	ST3D200	CLAMPER	1	
D006	AL01Z	DIODE	1	B0HAMM000077
D007	MA2J72800L	DIODE	1	MA2J728
D101	RK49	DIODE	1	B0JAPK000005
D102	FCQ20A6	DIODE	1	
D103	BRF1560	DIODE	1	
D104-07	MA165TA5	DIODE	4	MA2C16500E
D108	FCH05A10	DIODE	1	
D111-13	MA165TA5	DIODE	3	MA2C16500E
D114	GPP20J	DIODE	1	
D120	MA2J11100L	DIODE	1	
F001	19181-2A	FUSE	1	⚠
F101	SBM40	FUSE	1	⚠
F102	SBM32	FUSE	1	⚠
F103	SBM25	FUSE	1	⚠
IC001	STRG6353	IC	1	⚠
IC101	TL431AILPR	IC	1	
IC102	LM2904DR	IC	1	
IC103	SI3010KM	IC	1	
IC106	SI3120J	IC	1	
IP101	ICPN10	IC PROTECTOR	1	⚠
L002	ELF15N005A	COIL	1	⚠
L004	ELESN150KA	COIL	1	
L005	EXCELSR35	COIL	1	
L010,11	EXCELSA35	COIL	2	
L101	EXCELD35	COIL	1	
L102	LHLZ1R5M	COIL	1	
L103	EXCELD35	COIL	1	
L104	LHLZ6R8M	COIL	1	
L105	EXCELSA35	COIL	1	
L107	EXCELSA35	COIL	1	
L108	EXCELD35	COIL	1	
L109	LHLZ4R7M	COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P001	M2023	AC INLET	1	
PC001	PS2571L1	PHOTO COUPLER	1	
PS102	TWGP23XA1	CONNECTOR(23P)	1	
Q101	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q102	2SB710AQRSTX	TRANSISTOR	1	2SB0710A
Q103	2SB0709ARL	TRANSISTOR	1	
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	2SK3366	TRANSISTOR	1	
Q106,07	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q110	2SB710AQRSTX	TRANSISTOR	1	2SB0710A
Q111	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q113	2SK3366	TRANSISTOR	1	
Q114	2SB710AQRSTX	TRANSISTOR	1	2SB0710A
Q115,16	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q117	2SB0709ARL	TRANSISTOR	1	
Q118	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q119	2SB710AQRSTX	TRANSISTOR	1	2SB0710A
R001	ERDS1FJ105	0.5W 1M	1	
R002	CR10J681	0.1W 680	1	
R003	ERX1SZGR47	1W 0.47	1	
R005	ERDS2FJ224	1/4W 220K	1	
R006	ER0S2TKF2373	0.25W 237K	1	
R007	CR10F1272	0.1W 12.7K	1	
R008	CR10J562	0.1W 5.6K	1	
R009	ERDS2FJ224	1/4W 220K	1	
R010	ER0S2TKF2373	0.25W 237K	1	
R101	CR10J472	0.1W 4.7K	1	
R102,03	CR10J100	0.1W 10	2	
R104	CR10J471	0.1W 470	1	
R105	CR10J472	0.1W 4.7K	1	
R106	ERJ6GEYJ101V	1/8W 100	1	
R107	CR10J224	0.1W 220K	1	
R108	CR10J472	0.1W 4.7K	1	
R109	CR10J222	0.1W 2.2K	1	
R110	CR10J103	0.1W 10K	1	
R111	CR10J752	0.1W 7.5K	1	
R112	CR10J102	0.1W 1K	1	
R113	CR10J471	0.1W 470	1	
R114	ERDS2FJ101	1/4W 100	1	
R115	CR10J332	0.1W 3.3K	1	
R116	CR10J102	0.1W 1K	1	
R117	ERJ6GEYJ101V	1/8W 100	1	
R120	CR10F2210	0.1W 221	1	
R121	CR10F1001	0.1W 1K	1	
R122	CR10J183	0.1W 18K	1	
R124	CR10F1470	0.1W 147	1	
R125	CR10J103	0.1W 10K	1	
R126	CR10F1002	0.1W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R127	CR10F3321	0.1W 3.32K	1	
R128	CR10F1211	0.1W 1.21K	1	
R130	CR10J822	0.1W 8.2K	1	
R131	CR10J103	0.1W 10K	1	
R132	CR10J472	0.1W 4.7K	1	
R136,37	CR10J152	0.1W 1.5K	2	
R139	CR10J123	0.1W 12K	1	
R143	ERDS2FJ822	1/4W 8.2K	1	
R144	CR10J222	0.1W 2.2K	1	
R145	CR10F6810	0.1W 681	1	
R153	CR10F1002	0.1W 10K	1	
R154	CR10F3321	0.1W 3.32K	1	
R157	CR10F2210	0.1W 221	1	
R158	CR10J682	0.1W 6.8K	1	
R159	CR10J103	0.1W 10K	1	
R160	CR10J332	0.1W 3.3K	1	
R163	CR10J183	0.1W 18K	1	
R164	CR10J222	0.1W 2.2K	1	
R165,66	CR10J103	0.1W 10K	2	
R167,68	CR10J152	0.1W 1.5K	2	
R169	CR10J102	0.1W 1K	1	
R170	CR10J752	0.1W 7.5K	1	
R171	CR10J472	0.1W 4.7K	1	
R172	ERJ6GEYJ101V	1/8W 100	1	
R173	CR10J224	0.1W 220K	1	
R174	CR10J471	0.1W 470	1	
R175	CR10J472	0.1W 4.7K	1	
R176	CR10F1002	0.1W 10K	1	
R177	CR10F2432	0.1W 24.3K	1	
R178	CR10J472	0.1W 4.7K	1	
R179	CR10J223	0.1W 22K	1	
T001	ETB28BF1U6A	TRANSFORMER	1	
VR101	ER0S2TKF1580	0.25W 158	1	
Z001	ERZVGAD471	VARISTOR	1	
ZD002	MA4068N	DIODE	1	
ZD004	MA8051	DIODE	1	
ZD101	MA4039M	DIODE	1	MAZ40390M
ZD102	MAZ8051	DIODE	1	
ZD103	MA8051	DIODE	1	
ZD104	MA8082	DIODE	1	
ZD105	MAZ8051	DIODE	1	
ZD106	MA8051	DIODE	1	
ZD107	RD6.2ESB	DIODE	1	
	08	REP3713A		(FRONT(R) P.C.B.)
C7801	F1H1A105A004	10V 1U	1	
D7801	B3ABA0000396	DIODE	1	

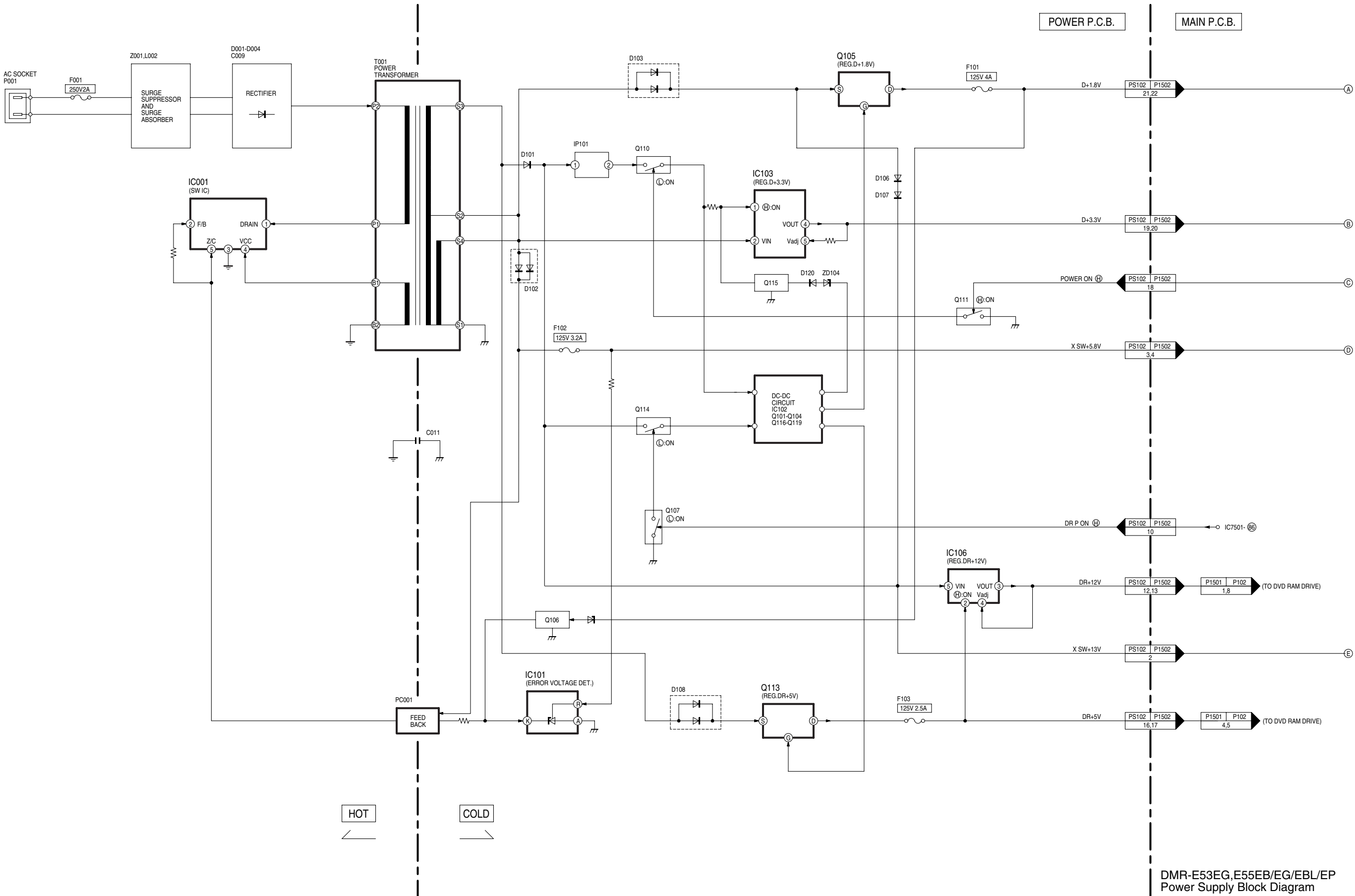
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IR7801	B3RAD0000071	REMOTE SENSOR	1	
P7801	K1KA12B00136	CONNECTOR(12P)	1	
QR7801	UNR221400L	TRANSISTOR	1	
R7801	ERDS2TJ330T	1/4W 33	1	
R7802	ERJ3GEYJ221V	1/10W 220	1	
R7809	ERJ3RBD272V	1/16W 2.7K	1	
R7817	ERJ3RBD272V	1/16W 2.7K	1	
R7818	ERJ3RBD222V	1/16W 2.2K	1	
R7819	ERJ3RBD332V	1/16W 3.3K	1	
R7825	ERJ3RBD272V	1/16W 2.7K	1	
R7826	ERJ3RBD222V	1/16W 2.2K	1	
R7827	ERJ3RBD332V	1/16W 3.3K	1	
S7801	EVQ11G07K	SWITCH,OPEN/CLOSE	1	
S7802	EVQ11G07K	SWITCH,SKIP-F	1	
S7809	EVQ11G07K	SWITCH,CH-DOWN	1	
S7811	EVQ11G07K	SWITCH,REC	1	
S7812	EVQ11G07K	SWITCH,STOP	1	
S7813	EVQ11G07K	SWITCH,SKIP-R	1	
S7819	EVQ11G07K	SWITCH,CH-UP	1	
S7820	EVQ11G07K	SWITCH,TIME WARP	1	
S7821	EVQ11G07K	SWITCH,PLAY	1	

21. Schematic Diagram for printing with A4



P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

DMR-E53EG,E55EB/EG/EBL/EP
Main Net Section
(Main P.C.B.(2/5))
Schematic Diagram(M)



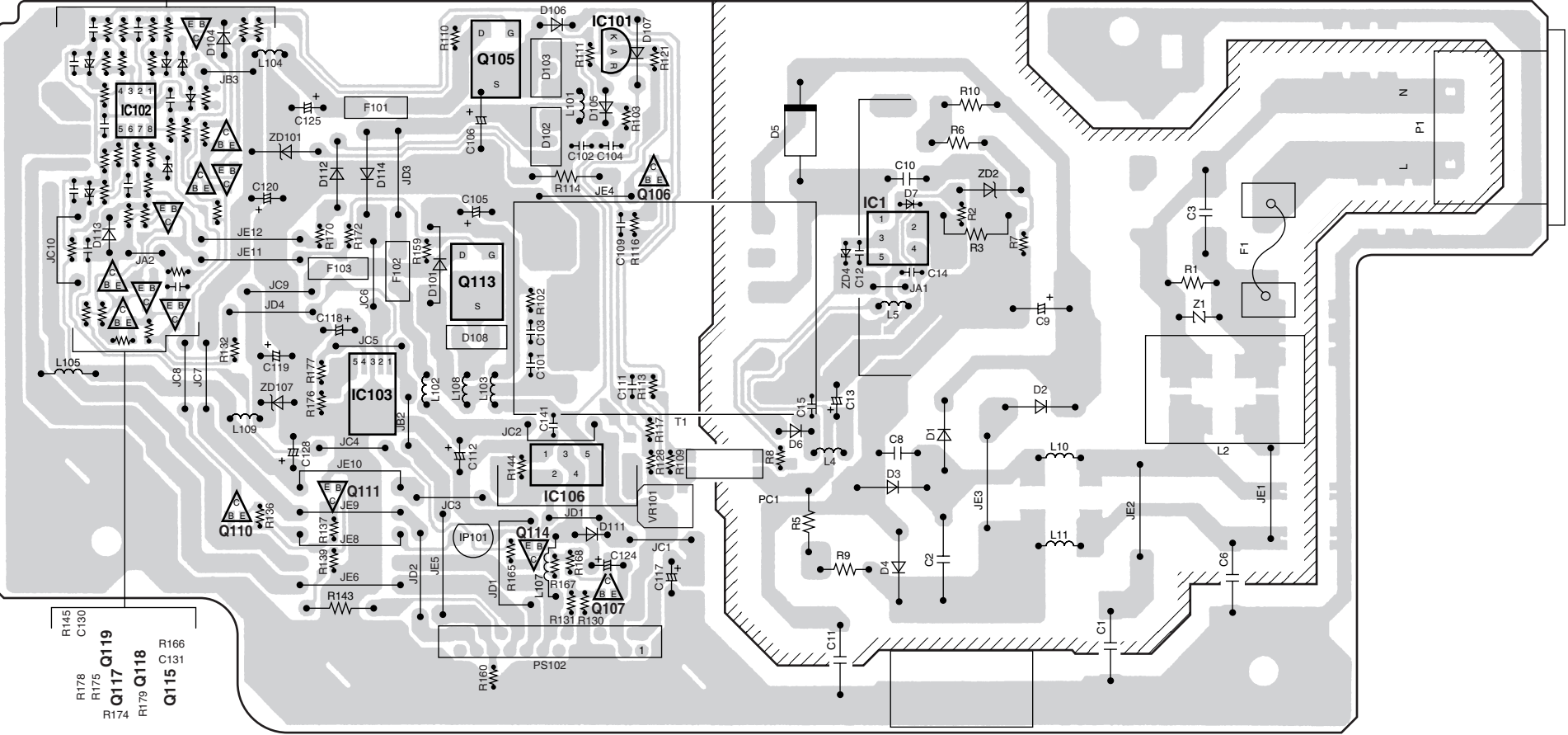
DMR-E53EG,E55EB/EG/EBL/EP
Power Supply Block Diagram

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Power P.C.B.

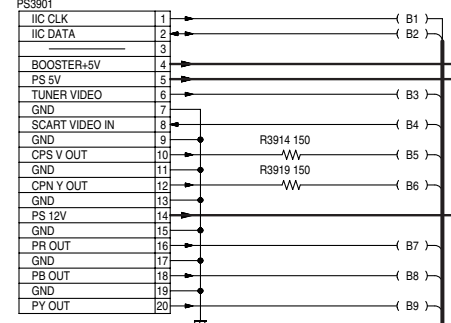
C129
ZD105
R157 R154 C115 R125 R126 R108
R153 R153
R171 C127 R158 C110
R173 R169 R163
Q116 ZD106 R164 C142 ZD103 R112
R105 D120 ZD104
Q103 Q101 Q102
R104 R101 R124
R107
R106

Integrated Circuit		Connector		Power P.C.B.															
IC1	C-5	P1	D-7	Z1	C-6	L105	C-1	C103	C-3	Resistor		R115	D-2	R159	C-3				
IC101	D-3	PS102	A-3	ZD2	C-5	L107	B-3	C104	C-3	R1	C-6	R116	C-4	R160	A-3				
IC102	D-2	Diode		ZD4	C-4	L108	B-3	C105	D-3	R2	C-5	R117	B-4	R163	C-2				
IC103	B-3	D1	B-5	ZD101	C-2	L109	B-2	C106	D-1	R3	C-5	R120	D-2	R164	D-2				
IC106	B-3	D2	B-5	ZD102	D-2	Fuse		C107	D-2	R5	C-5	R121	D-4	R165	B-3				
Transistor		D3	B-5	ZD103	D-2	F1	C-6	C109	C-4	R6	C-5	R122	D-2	R166	C-2				
Q101	C-2	D4	B-5	ZD104	D-2	F101	D-3	C110	D-2	R7	C-5	R124	D-2	R167	B-3				
Q102	C-2	D5	B-5	ZD105	C-1	F102	C-3	C111	B-4	R8	B-4	R125	D-1	R168	B-3				
Q103	C-2	D6	B-4	ZD106	C-2	F103	C-2	C112	B-3	R9	B-4	R126	D-1	R169	C-2				
Q104	D-2	D7	C-5	ZD107	B-2	Capacitor		C113	D-1	R10	D-5	R127	D-2	R170	C-2				
Q105	D-3	D101	C-3	IC Protector		C1	A-5	C115	D-1	R101	C-2	R128	B-4	R171	C-2				
Q106	C-4	D102	C-3	IP101	B-3	C2	B-5	C117	B-4	R102	C-3	R130	B-3	R172	C-2				
Q107	B-3	D103	C-3	Transformer		C3	C-6	C118	C-2	R103	C-2	R131	B-3	R173	C-2				
Q110	B-2	D104	D-2	T1	C-4	C6	D-6	C119	C-2	R104	C-2	R132	C-2	R174	C-2				
Q111	B-2	D105	D-3	Coil		C8	B-5	C120	C-2	R105	D-2	R136	B-2	R175	C-1				
Q113	C-3	D106	D-3	L2	D-6	C9	C-5	C124	B-3	R106	D-2	R137	B-2	R176	B-2				
Q114	B-3	D107	D-4	L4	B-4	C10	C-5	C125	D-2	R107	D-2	R139	B-2	R177	C-2				
Q115	C-2	D108	C-3	L5	C-5	C11	A-4	C127	C-2	R108	D-1	R143	B-2	R178	C-1				
Q116	C-2	D111	B-3	L10	B-5	C12	C-5	C128	B-2	R109	B-4	R144	C-1	R179	C-2				
Q117	C-2	D112	C-2	L11	D-3	C13	B-4	C129	C-1	R110	D-3	R145	C-1	VR101	B-4				
Q118	C-2	D113	C-1	L101	B-3	C14	C-5	C130	C-1	R111	D-3	R153	C-2		C-2				
Q119	C-1	D114	C-3	L102	B-3	C15	B-4	C131	C-2	R112	D-2	R154	C-1		C-1				
PC1	B-4	D120	D-2	L103	D-2	C101	C-3	C141	B-3	R113	B-4	R157	C-1		C-1				
				L104		C102	C-3	C142	D-2	R114	C-3	R158	C-2		C-2				

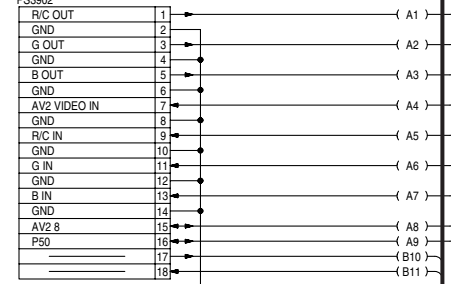


G
F
E
D
C
B
A

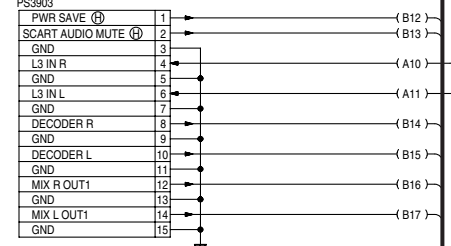
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MAIN P.C.B.
(MAIN NET SEC.)
PS3901



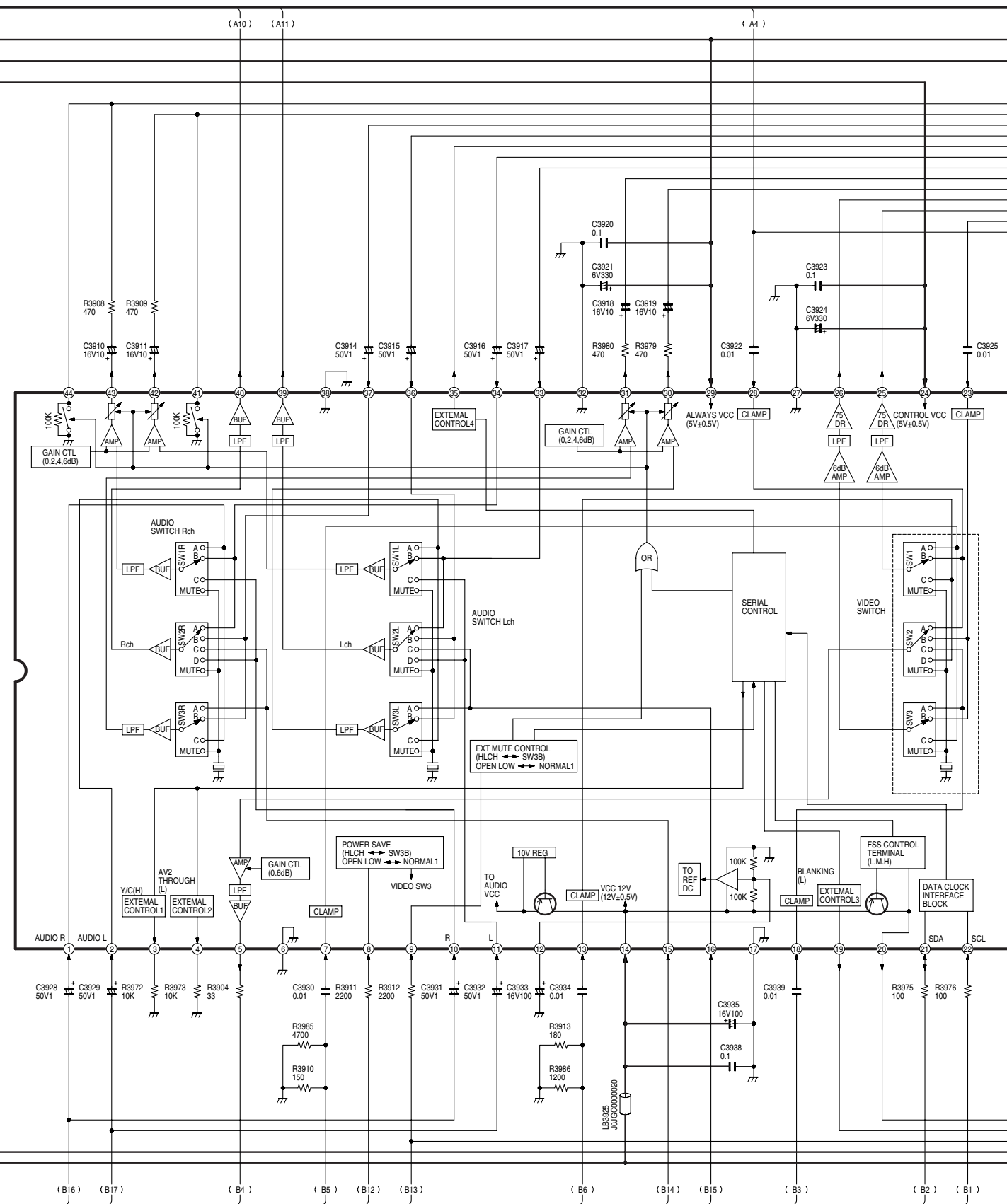
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MAIN P.C.B.
(MAIN NET SEC.)
PS3902



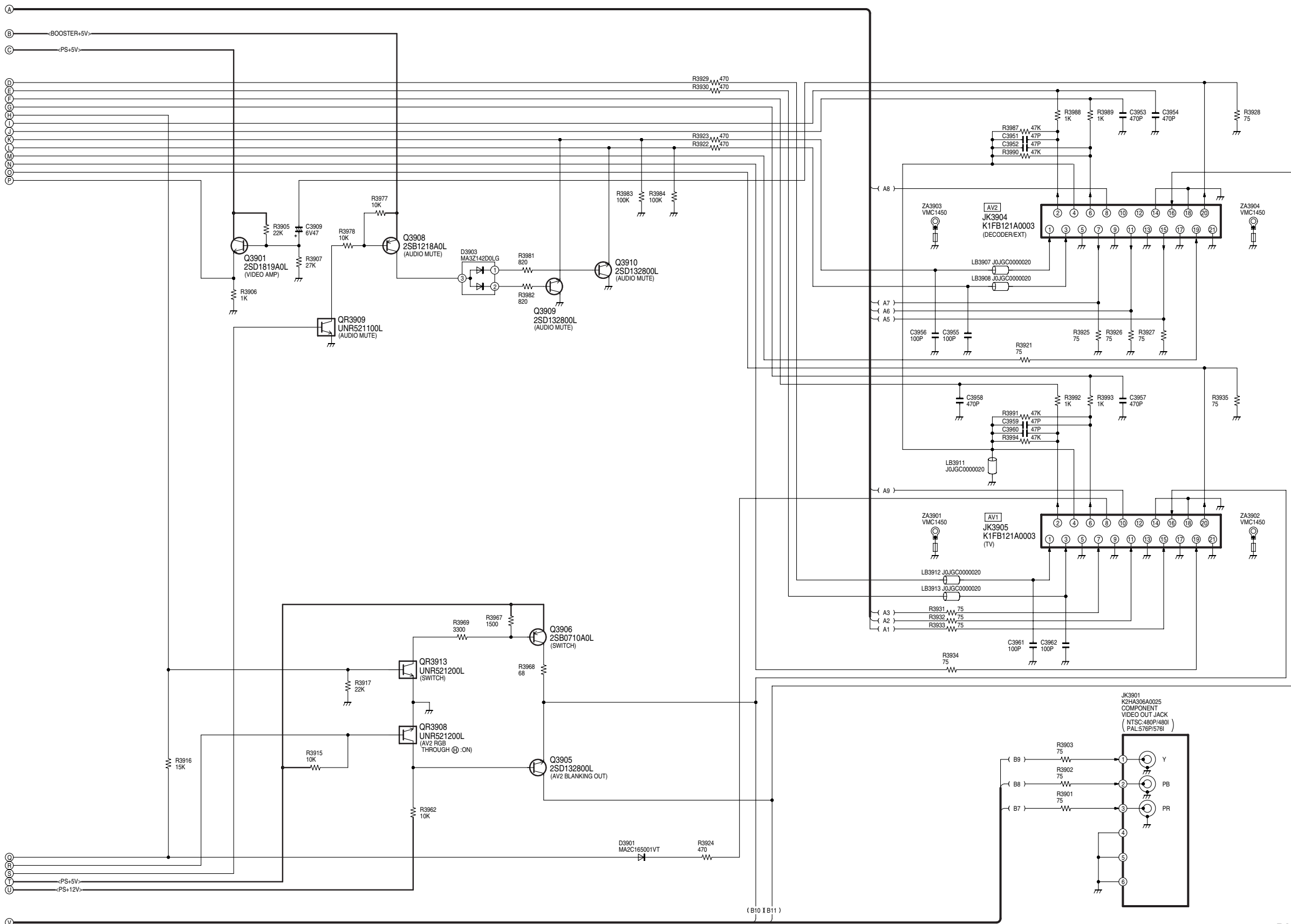
TO PP7403
MAIN P.C.B.
(MAIN NET SEC.)
PS3903



IC3901
C1AB00001776
(AV BUFFER AND SWITCH)

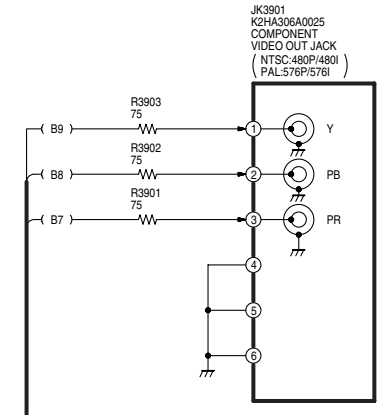


DMR-E53EG,E55EB/EG/EBL/EP
Scart Schematic Diagram



AV2	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND



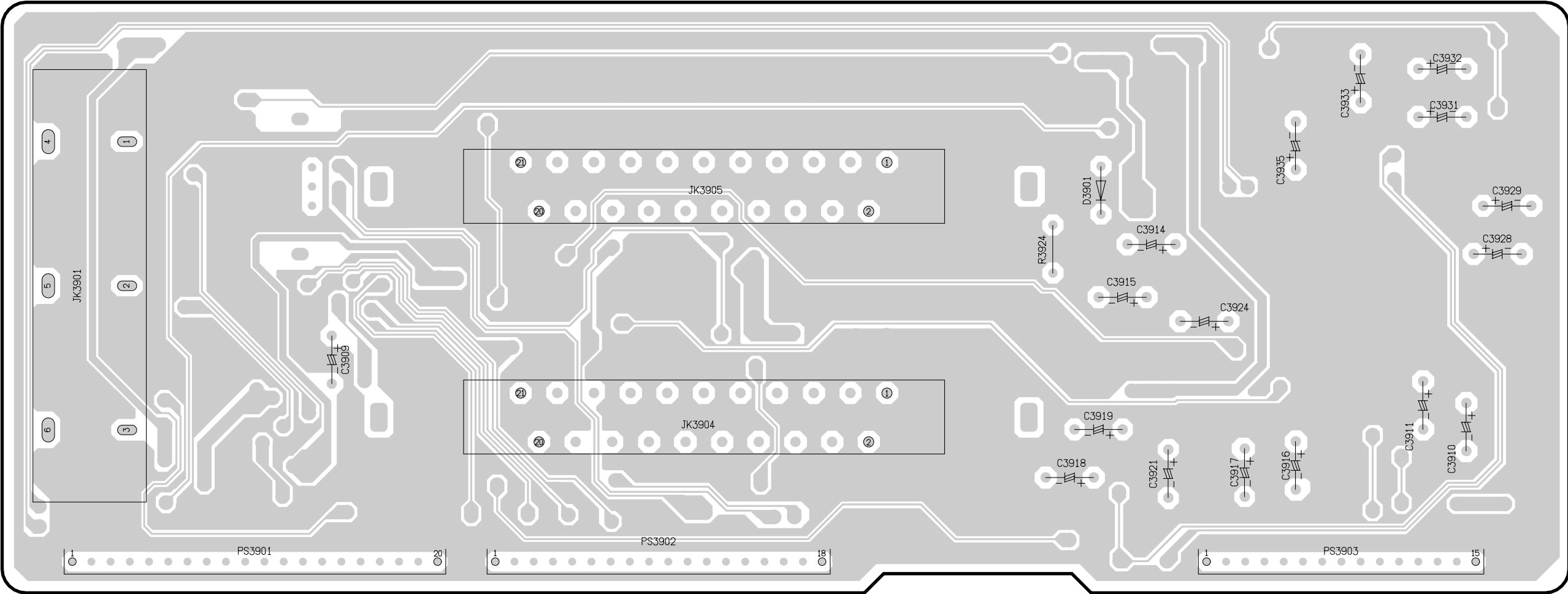
DMR-E53EG,E55EB/EG/EBL/EP
Scart Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG,E55EB/EG/EBL/EP
Scart Schematic Diagram

Scart P.C.B.(Component Side)			
Diode		Capacitor	
D3901	C-7	C3916	A-8
Connector		C3917	A-8
		C3918	A-7
		C3919	B-7
		C3921	A-7
		C3924	B-7
		C3928	C-9
PS3901	A-2	C3929	C-9
PS3902	A-4	C3931	C-9
PS3903	A-8	C3932	D-9
Capacitor		C3933	D-8
		C3935	C-8
		Resistor	
		R3924	C-7

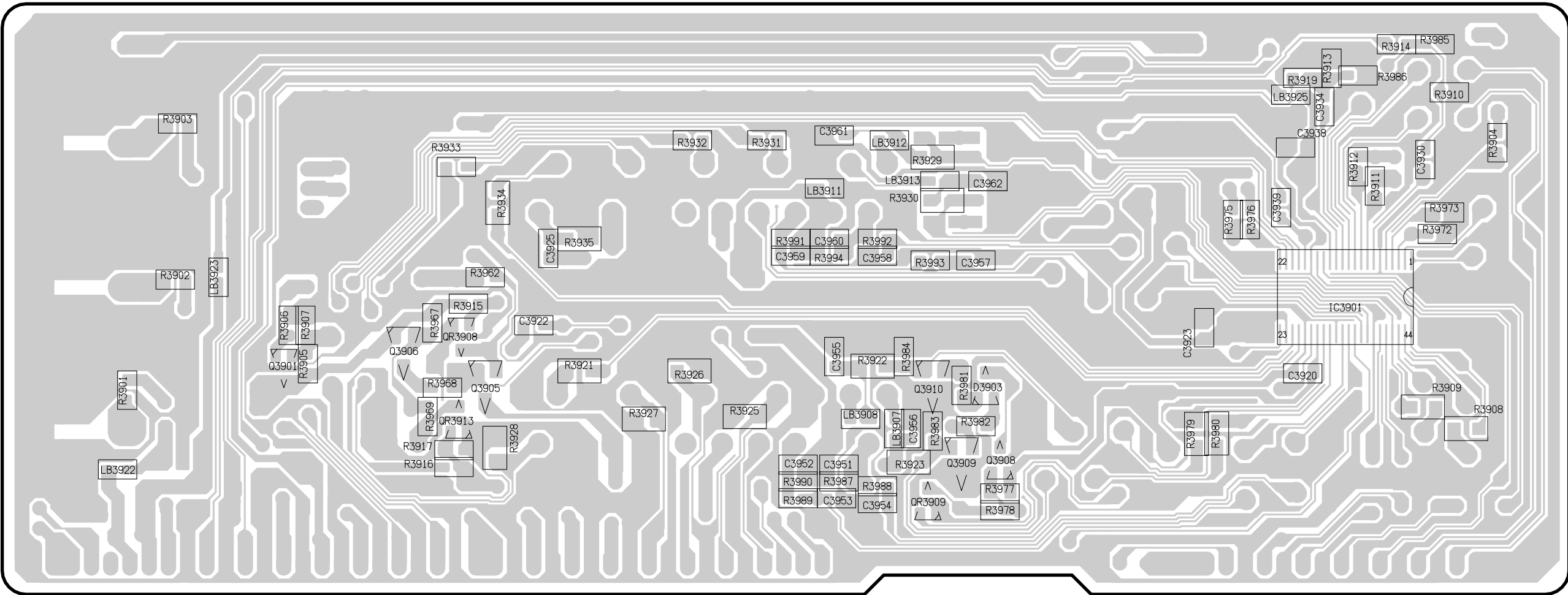
Scart P.C.B.



(COMPONENT SIDE)

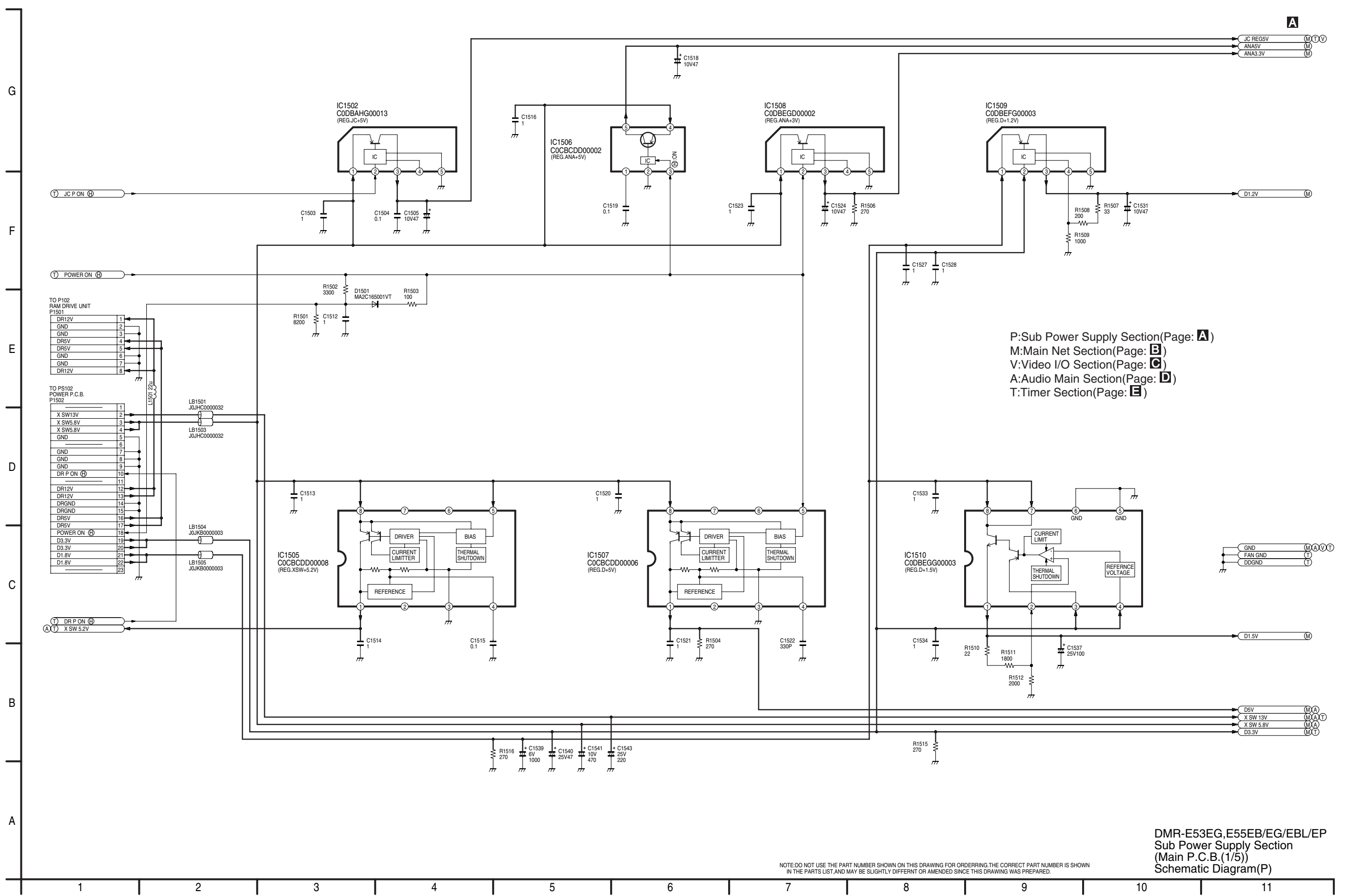
Scart P.C.B.(Foil Side)													
Integrated Circuit		Coil				Resistor							
IC3901	B-8	LB3907	B-6	C3934	C-8	R3901	B-1	R3916	B-3	R3935	C-4	R3983	B-6
Transistor		LB3908	B-5	C3938	C-8	R3902	C-2	R3917	B-3	R3962	C-3	R3984	B-6
Q3901	B-2	LB3911	C-5	C3939	C-8	R3903	C-2	R3919	D-8	R3967	B-3	R3985	D-9
Q3905	B-3	LB3912	C-6	C3952	B-5	R3904	C-9	R3921	B-4	R3968	B-3	R3986	D-8
Q3906	B-3	LB3913	C-6	C3953	A-5	R3905	B-2	R3922	B-6	R3969	B-3	R3987	A-5
Q3908	B-6	LB3922	B-1	C3954	A-6	R3906	B-2	R3923	B-6	R3972	C-9	R3988	A-6
Q3909	B-6	LB3923	C-2	C3955	B-5	R3907	B-2	R3925	B-5	R3973	C-9	R3989	A-5
Q3910	B-6	LB3925	D-8	C3956	B-6	R3908	B-9	R3926	B-5	R3975	C-7	R3990	A-5
Transistor-resistor		Capacitor		C3957	C-6	R3909	B-9	R3927	B-4	R3976	C-8	R3991	C-5
QR3908	B-3	C3920	B-8	C3958	C-6	R3910	D-9	R3928	B-3	R3977	A-6	R3992	C-6
QR3909	A-6	C3922	B-4	C3959	C-5	R3911	C-8	R3929	C-6	R3978	A-6	R3993	C-6
QR3913	B-3	C3923	B-7	C3960	C-5	R3912	C-8	R3930	C-6	R3979	B-7	R3994	C-5
Diode		C3925	C-4	C3961	C-5	R3914	D-8	R3932	C-5	R3980	B-7		
D3903	B-6	C3930	C-8	C3962	C-6	R3915	B-3	R3933	C-3	R3981	B-6		
								R3934	C-4	R3982	B-6		

Scart P.C.B.



(FOIL SIDE)

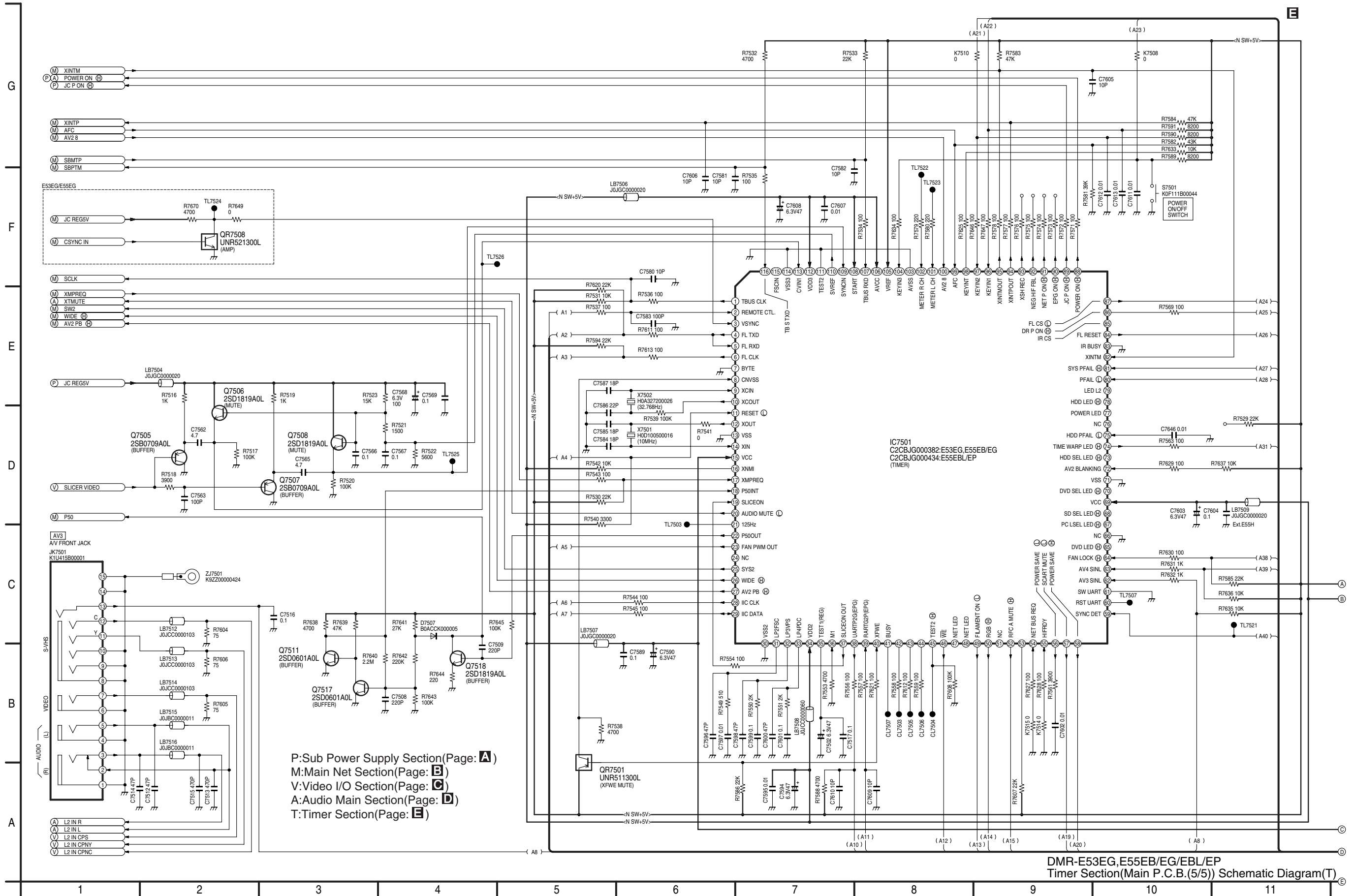
Ref No. MODE	IC3901																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.6	5.6	0	0	1.2	0	2.2	0	0	5.6	5.6	5.0	1.8	12.1	5.6	5.6	0	1.8	3.6	0
PLAY	5.6	5.6	0	0	1.2	0	2.2	0	0	5.6	5.6	5.0	1.8	12.1	5.6	5.6	0	1.8	3.6	11.6
STOP	5.6	5.6	0	0	1.2	0	2.2	0	0	5.6	5.6	5.0	1.8	12.1	5.6	5.6	0	1.8	3.6	0
Ref No. MODE	IC3901																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.2	4.5	1.8	5.0	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0	5.6	5.6	0	4.9	4.9
PLAY	4.2	4.5	1.8	5.0	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0.2	5.6	5.6	0	4.9	4.9
STOP	4.2	4.5	1.8	5.0	2.0	2.0	0	1.8	5.0	4.9	4.9	0	5.6	5.6	0	5.6	5.6	0	4.9	4.9
Ref No. MODE	IC3901																			
	41	42	43	44																
REC	0	4.9	4.9	0																
PLAY	0	4.9	4.9	0																
STOP	0	4.9	4.9	0																
Ref No. MODE	Q3901				Q3905				Q3906				Q3908				Q3909			
	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.1	5.0	2.7		0	0	0		5.0	0	5.0		5.0	-0.6	5.0		0	0	-0.2	
PLAY	2.1	5.0	2.7		0	0	0		5.0	0	5.0		5.0	-0.6	5.0		0	0	-0.2	
STOP	2.1	5.0	2.7		0	0	0		5.0	0	5.0		5.0	-0.6	5.0		0	0	-0.3	
Ref No. MODE	Q3910				QR3908				QR3909				QR3913							
	E	C	B		E	C	B		E	C	B		E	C	B					
REC	0	0	0		0	3.6	0		0	5.0	0		0	5.0	0					
PLAY	0	0	0		0	0	3.6		0	5.0	0		0	5.0	0.2					
STOP	0	0	-0.1		0	0	3.6		0	5.0	0		0	5.0	0					

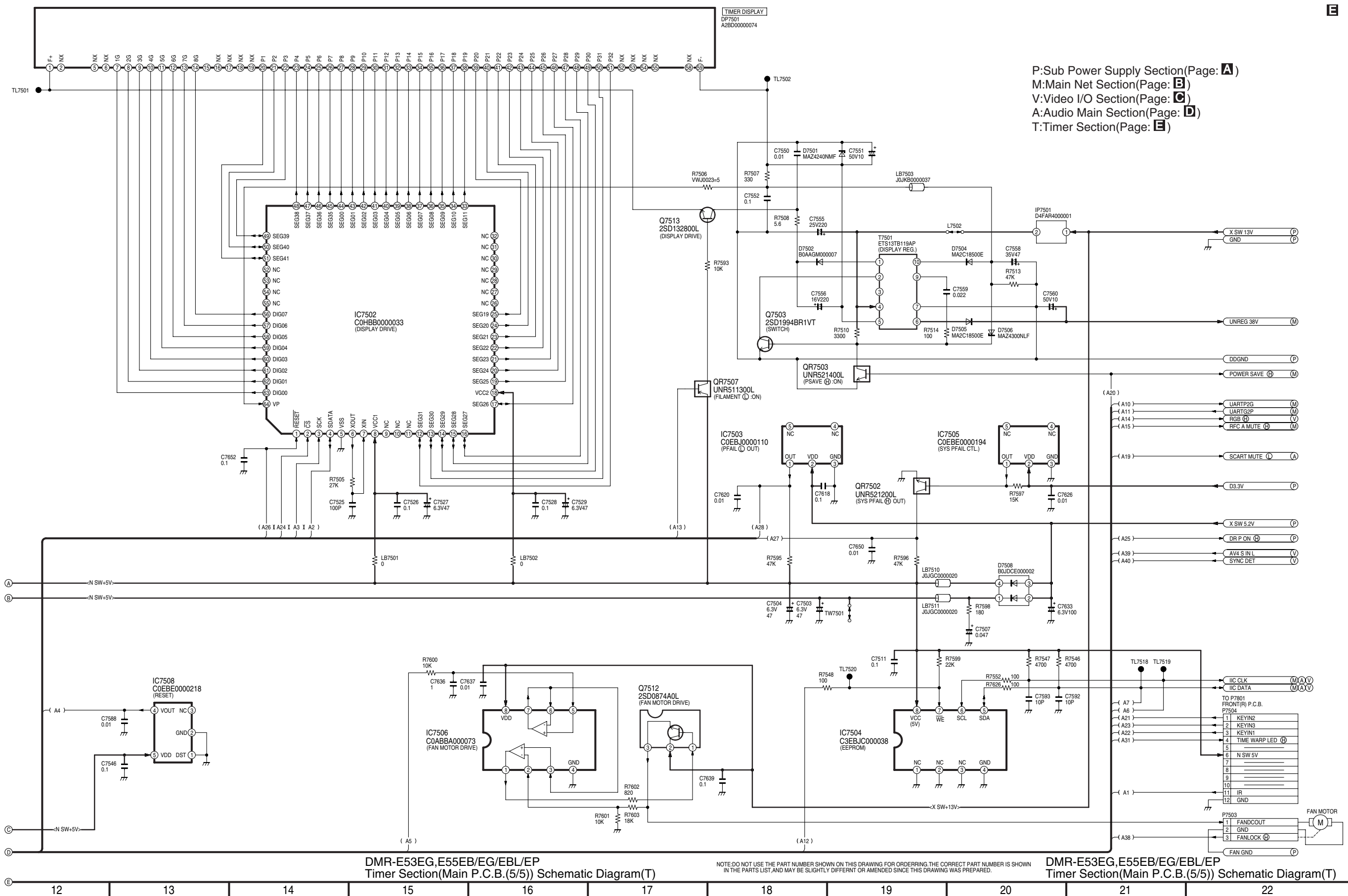


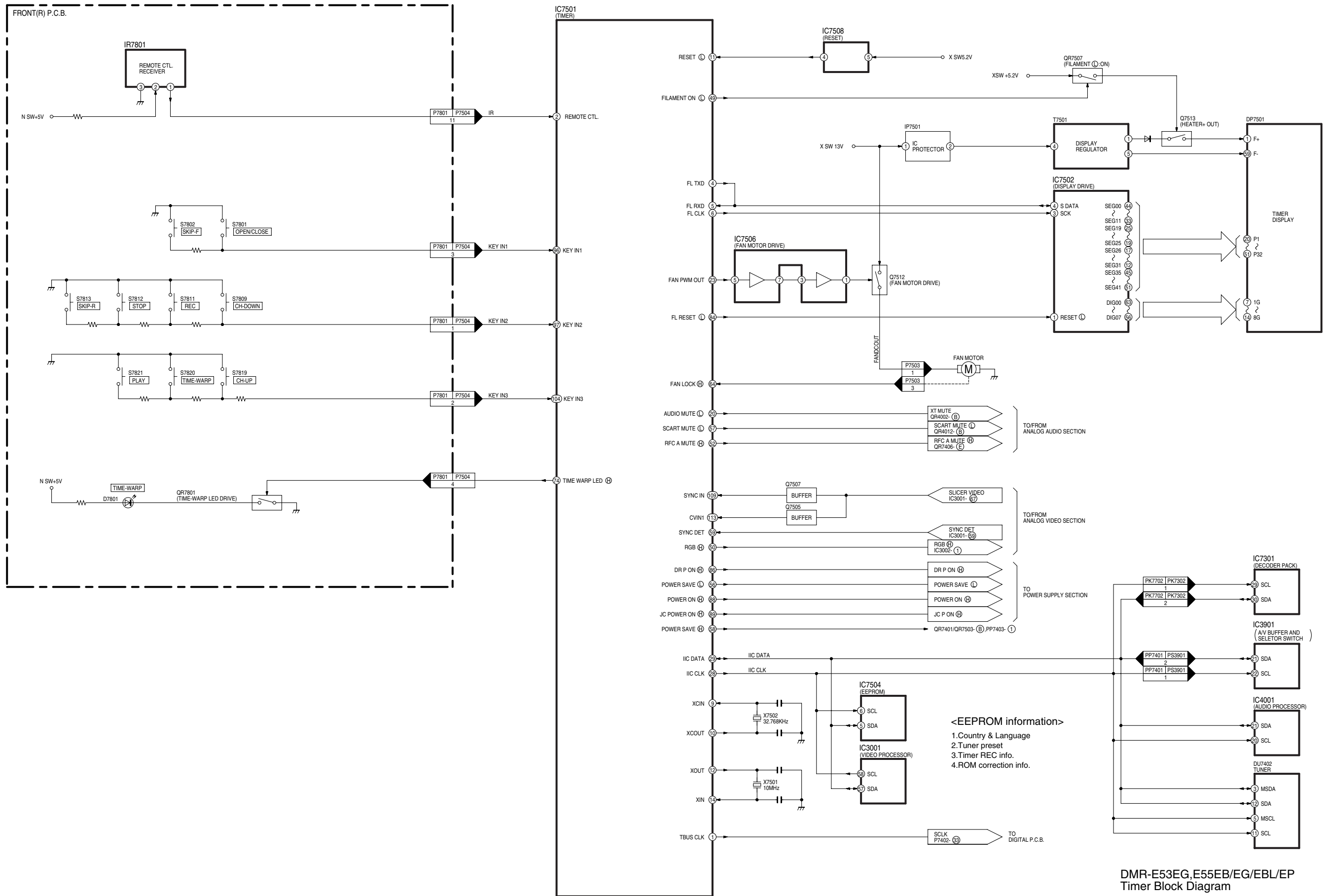
P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

DMR-E53EG,E55EB/EG/EBL/EP
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

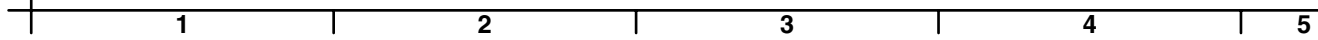






DMR-E53EG,E55EB/EG/EBL/EP
Timer Block Diagram

A vertical line with five horizontal tick marks. From bottom to top, the tick marks are labeled A, B, C, D, and E.



DMR-E55EB/EBL/EP
VIF Decoder P.C.B.
VEP07A71M: E55EB
VEP07A71N: E55EBL/EP

A horizontal number line with four segments. The segments are labeled 1, 2, 3, and 4 from left to right. Each segment is separated by a vertical tick mark.

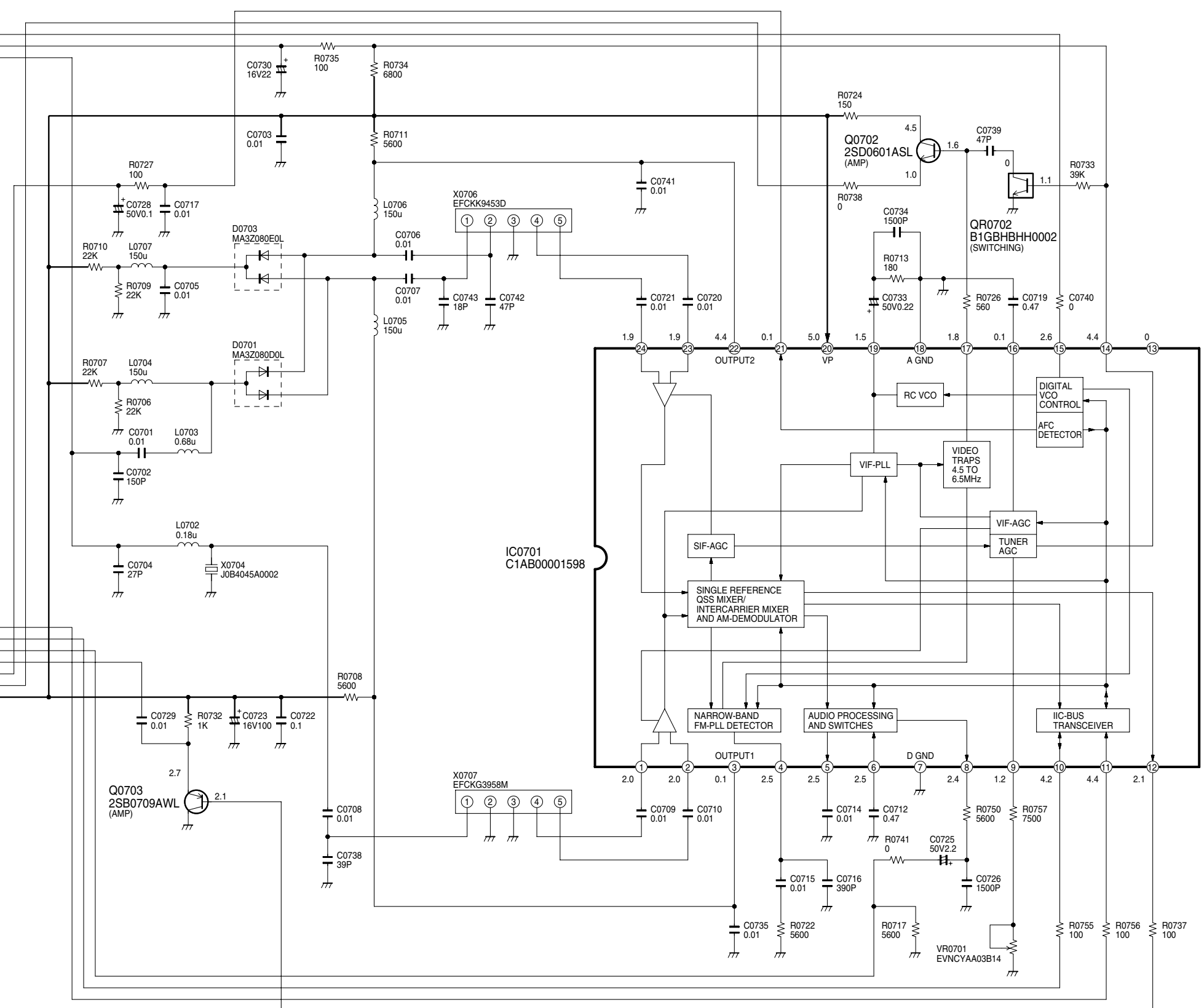
F
E
D
C
B
A

PP0701
(TO TUNER UNIT)

4MHz	1
AGC	2
IF	3
GND	4

PK0701

DU7402-19	IIC CLOCK	1	4.4
DU7402-20	IIC DATA	2	4.2
DU7402-21	TUNER AUDIO	3	0
DU7402-22	SIF OUT	4	0.2
DU7402-23	AFC S-CURVE	5	0.2
DU7402-24	TUNER VIDEO	6	1.0
DU7402-25	REG 5V	7	5.0
DU7402-26		8	
DU7402-27	GND	9	

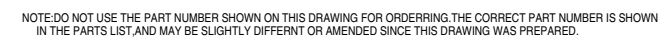


NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E53EG/E55EG
VIF Decoder
Schematic Diagram

1 2 3 4 5 6 7 8



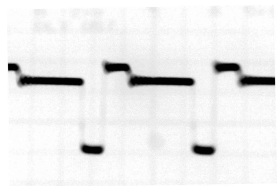
DMR-E53EG,E55EB/EG/EBL/EP
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

Ref No.	IC1502						IC1505									IC1506				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	5.6	4.9	5.0	0	0		5.2	0	0	3.6	5.7	0	0	5.7		1.3	0	4.8	5.6	5.0
PLAY	5.6	4.9	5.0	0	0		5.2	0	0	3.6	5.7	0	0	5.7		1.3	0	4.8	5.6	5.0
STOP	5.6	4.9	5.0	0	0		5.2	0	0	3.6	5.7	0	0	5.7		1.3	0	4.8	5.6	5.0
Ref No.	IC1507									IC1508						IC1509				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	5.0	0	0	3.4	4.8	0	0	5.7		5.7	4.8	3.3	0	0		2.0	3.5	1.2	1.0	0
PLAY	5.0	0	0	3.4	4.8	0	0	5.7		5.7	4.8	3.3	0	0		2.0	3.5	1.2	1.0	0
STOP	5.0	0	0	3.4	4.8	0	0	5.7		5.7	4.8	3.3	0	0		2.0	3.5	1.2	1.0	0
Ref No.	IC1510																			
MODE	1	2	3	4	5	6	7	8												
REC	1.5	0.8	3.5	3.5	0	0	2.0	2.0												
PLAY	1.5	0.8	3.5	3.5	0	0	2.0	2.0												
STOP	1.5	0.8	3.5	3.5	0	0	2.0	2.0												
Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.4	0	1.4	5.0	1.4	4.9	1.4	4.7	0.1	2.7	0	1.9	4.9	1.4	0	0.1	2.7	0	1.4	4.9
PLAY	1.4	0	1.4	5.0	1.4	4.9	1.4	4.7	0.1	2.7	0	1.9	4.9	1.4	0	0	2.7	0	1.4	4.9
STOP	1.4	0	1.4	5.0	1.4	4.9	1.4	4.7	0.1	2.7	0	1.9	4.9	1.4	0	0.1	2.7	0	1.4	4.9
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.4	0	0.1	2.7	5.0	0.7	0.7	0.7	0.7	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	1.4	5.0
PLAY	1.4	0	0.1	2.7	5.0	0.7	0.7	0.7	0.7	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	1.4	5.0
STOP	1.4	0	0.1	2.7	5.0	0.7	0.7	0.7	0.7	2.2	0	2.2	2.2	2.2	2.2	2.2	2.2	0	1.4	5.0
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.8	0	2.8	5.0	2.8	2.8	2.8	4.7	2.8	0	2.8	5.0	2.8	2.9	1.0	0	4.1	4.5	0	0.4
PLAY	2.8	0	2.8	5.0	2.8	2.8	2.8	4.7	2.8	0	2.8	5.0	2.8	2.9	1.0	0	4.1	4.5	0	0.4
STOP	2.8	0	2.8	5.0	2.8	2.8	2.8	4.7	2.8	0	2.8	5.0	2.8	2.9	1.0	0	4.2	4.5	0	0
Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0.8	0.8	5.0	1.3	0	1.8	0	2.0	0	0.8	5.0	0.8	0	2.0	0	0	5.0	0	0
PLAY	0	0.8	0.8	5.0	1.3	0	1.9	0	2.1	0	0.8	5.0	0.8	0	2.0	0	0	5.0	0	0
STOP	0	0.9	0	5.0	0.9	0	0.9	0	2.1	0	0.8	5.0	0.7	0	2.0	0	0	5.0	0	0
Ref No.	IC3002																			
MODE	1	2	3	4	5	6														
REC	0	1.7	5.0	2.5	0	2.4														
PLAY	0	1.7	5.0	2.5	0	2.4														
STOP	0	1.7	5.0	2.5	0	2.4														

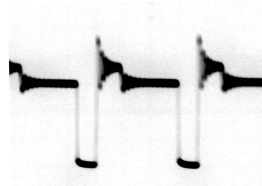
Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.1	5.0	2.7	0	2.6	5.0	0	2.6	0	2.0	5.0	2.8	0	2.8	5.0	2.2	2.3	0	2.3	0
PLAY	2.1	5.0	2.7	0	2.6	5.0	0	2.6	0	2.0	5.0	2.8	0	2.8	5.0	2.2	2.3	0	2.3	0
STOP	2.1	5.0	2.7	0	2.6	5.0	0	2.6	0	2.0	5.0	2.8	0	2.8	5.0	2.2	2.3	0	2.3	0
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	2.1	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
PLAY	2.1	2.1	0	2.1	2.2	0	2.0	0	2.1	2.1	0	2.3								
STOP	2.1	2.2	0	2.2	2.2	0	2.0	0	2.1	2.1	0	2.3								
Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0.3	4.5	4.5	0.3	0.3	4.6	4.6	3.4	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	0	4.5
PLAY	0.3	4.5	4.5	0.1	0.1	4.6	4.6	3.4	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	0	4.5
STOP	0.3	4.5	4.5	0.1	0.1	4.6	4.6	3.4	4.5	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	0	4.5
Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.1	0	4.6	4.5	4.5	4.5	4.5	4.6	4.6	9.2	4.5	4.5								
PLAY	4.1	0	4.6	4.5	4.5	4.5	4.5	4.6	4.6	9.2	4.5	4.5								
STOP	4.2	0	4.6	4.5	4.5	4.5	4.5	4.6	4.6	9.2	4.5	4.5								
Ref No.	IC4005										IC4006					IC4007				
MODE	1	2	3	4	5	6	7	8			1	2	3			1	2	3	4	5
REC	2.5	5.0	0	0	5.0	0	2.5	5.0			2.5	5.0	0			5.0	1.7	0	2.5	5.0
PLAY	2.5	5.0	0	0	5.0	0	2.5	5.0			2.5	5.0	0			5.0	1.7	0	2.5	5.0
STOP	2.5	5.0	0	0	5.0	0	2.5	5.0			2.5	5.0	0			5.0	1.8	0	2.5	5.0
Ref No.	IC4009								IC4010						IC4011					
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5		1	2	3	4
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.1			13.5	4.8	12.1	0	0		1.2	0	4.8	5.7
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.1			13.5	4.8	12.1	0	0		1.2	0	4.8	5.7
STOP	6.0	6.1	6.1	0	6.1	6.1	6.1	12.1			13.6	4.8	12.1	0	0		1.2	0	4.8	5.7
Ref No.	IC4012								IC4013					IC7401						
MODE	1	2	3	4	5	6	7	8			1	2	3			1	2	3	4	5
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.1			9.2	0	12.1			13.5	3.3	12.1	0	0
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.1			9.2	0	12.1			13.5	3.3	12.1	0	0
STOP	6.1	6.1	6.1	0	6.0	6.1	6.1	12.1			9.2	0	12.1			13.6	3.3	12.1	0	0
Ref No.	IC7402							IC7403												
MODE	1	2	3	4	5	6		1	2	3	4	5								
REC	5.5	0	5.5	1.2	0	5.0		5.5	3.3	5.0	0	0								
PLAY	5.5	0	5.5	1.2	0	5.0		5.5	3.3	5.0	0	0								
STOP	5.6	0	5.6	1.3	0	5.0		5.6	3.3	5.0	0	0								
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	4.9	0	4.1	4.1	4.4	0	0	-	-	4.9	-	0	-	4.9	4.9	5.0	4.9	0.3	4.9
PLAY	4.9	4.9	0	4.1	4.1	4.4	0	0	-	-	4.9	-	0	-	4.9	4.9	5.0	4.9	0.3	4.9
STOP	4.9	4.9	0	4.1	4.1	4.4	0	0	-	-	4.9	-	0	-	4.9	4.9	5.0	4.9	0	4.9
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	0	0	0	0	4.5	4.1	0	1.8	1.7	0	4.9	0	0	0.3	0	5.0	4.9
PLAY	0	0	0	0	0	0	4.9	4.5	4.1	0	1.8	1.7	1.9	4.9	2.6	0	0.3	0.1	5.0	4.9
STOP	0	0	0	0	0	0	0	4.5	4.2	0	1.8	1.7	1.9	4.9	2.6	0	0	0.1	5.0	4.9
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	0	4.9	0	0	0	0	0	0	4.9	0	0	4.9	4.9	0	0	0
PLAY	0	0	0	0	0	4.9	0	0	0	0	0	0	4.9	0	0	4.9	4.9	0	0	0
STOP	0	0	0	0	0	4.9	0	0	0	0	0	0	4.9	0	0	4.9	4.9	0	0	0
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	4.9	4.9	4.9	4.9	0	0	0	4.9	4.9	0	4.9	0	0	0	4.9	0	0	0	4.9
PLAY	0	4.9	4.9	4.9	4.9	0	0	0	4.9	4.9	0	4.9	0	0	0	4.9	0	0	0	4.9
STOP	0	4.9	4.9	4.9	4.9	0	0	0	4.9	4.9	0	4.9	0	0	0	4.9	0	0	0	4.9
Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	4.9	0	4.9	0	4.9	3.0	0	4.9	0	0	0	0	4.9	4.9	4.9	4.9	4.9	2.3	0
PLAY	0	4.9	0	4.9	0	4.9	3.0	4.9	4.9	0	0	0	0	4.9	4.9	4.9	4.9	4.9	2.3	5.0
STOP	0	4.9	0	4.9	0	4.9	3.0	4.9	4.9	0	0	0	0	4.9	4.9	4.9	4.9	4.9	2.3	0
Ref No.	IC7501																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0.2	0.2	0	4.9	4.9	4.9	4.9	4.9	2.0	1.3	0	4.9	2.0	0	0	4.9				
PLAY	0.3	0.3	0	4.9	4.9	4.9	4.9	4.9	2.0	1.3	0	4.9	2.0	0	0	4.9				
STOP	0.2	0.2	0	4.9	4.9	4.9	4.9	4.9	1.1	1.3	0	4.9	1.1	0	0	4.9				
Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	3.0	4.4	4.1	0	2.2	2.2	4.9	-28.6	-28.6	-28.6	-28.6	-28.6	-25.4	-25.4	-22.3	-28.6	4.9	-28.6	-25.4
PLAY	4.9	3.0	4.4	4.1	0	2.2	2.2	4.9	-28.6	-28.6	-28.6	-28.6	-28.6	-25.5	-25.5	-22.3	-28.6	4.9	-28.6	-28.6
STOP	4.9	3.0	4.4	4.1	0	2.2	2.2	4.9	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-25.5	-25.5	-28.6	4.9	-28.6	-28.6
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	-28.6	-28.6	-28.6	-22.2	-25.4	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-16.0	-16.0	-19.1	-19.2	-22.3	-22.3	-19.1	-22.3
PLAY	-25.4	-28.6	-25.4	-22.3	-25.4	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-19.1	-16.0	-25.4	-22.3	-25.5	-22.3	-22.3	-15.9
STOP	-28.6	-28.6	-28.6	-25.5	-22.3	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-25.5	-19.1	-28.6	-22.3	-28.6	-22.3	-25.5	-19.1
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-15.9	-15.9	-28.6	-28.6	-28.6	-28.6	-22.3	-25.4	-19.2	-16.0	-22.2	-28.6	-28.6	-28.6	-28.6	-25.5	-25.5	-25.5	-25.5	-25.5
PLAY	-19.1	-19.1	-28.6	-28.6	-28.6	-25.4	-22.3	-25.5	-19.2	-16.0	-22.3	-28.6	-28.6	-28.6	-28.6	-25.5	-25.5	-25.5	-25.5	-25.5
STOP	-25.5	-15.9	-28.6	-28.6	-28.6	-28.7	-22.3	-25.5	-22.3	-19.2	-22.3	-28.6	-28.6	-28.6	-28.7	-25.5	-25.5	-25.5	-25.6	-25.5

Ref No.	IC7502																			
MODE	61	62	63	64																
REC	-25.5	-25.5	-25.5	-28.8																
PLAY	-25.5	-25.5	-25.5	-28.8																
STOP	-25.6	-25.5	-25.6	-28.9																
Ref No.	IC7503					IC7504										IC7505				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	5.0	5.2	0	0	0		0	0	0	0	4.1	4.5	4.9	4.9		2.3	3.5	0	0	0
PLAY	4.9	5.2	0	0	0		0	0	0	0	4.1	4.5	4.9	4.9		2.3	3.5	0	0	0
STOP	4.9	5.2	0	0	0		0	0	0	0	4.2	4.5	4.9	4.9		2.3	3.5	0	0	0
Ref No.	IC7506								IC7508											
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5						
REC	0.4	0	0	0	0	0	0	13.5		0	0	0	4.9	4.9						
PLAY	0.4	0	0	0	0	0	0	13.5		0	0	0	4.9	4.9						
STOP	0.4	0	0	0	0	0	0	13.6		0	0	0	4.9	4.9						
Ref No.	Q3006				Q3007				Q3009				Q3010				Q4004			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.8	0	1.2		1.8	0	1.1		1.7	0	1.0		1.7	0	1.0		5.2	-0.8	5.2	
PLAY	1.8	0	1.2		1.8	0	1.2		1.7	0	1.0		1.7	0	1.0		5.2	-0.8	5.2	
STOP	1.8	0	1.2		1.8	0	1.2		1.7	0	1.0		1.7	0	1.0		5.2	5.1	4.5	
Ref No.	Q4006				Q4007				Q4008				Q4009				Q7401			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	-0.1		0	0	-0.4		0	0	-0.1		0	0	-0.4		0	12.1	0	
PLAY	0	0	-0.2		0	0	-0.5		0	0	-0.1		0	0	-0.5		0	12.1	0.1	
STOP	0	0	0.7		0	0	0.7		0	0	0.7		0	0	0.7		0	12.1	0.1	
Ref No.	Q7402				Q7404				Q7405				Q7406				Q7503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.9	0	2.3		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	3.7	-1.0	
PLAY	2.9	0	2.3		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	3.5	-1.0	
STOP	2.9	0	2.2		1.3	5.0	1.9		1.3	5.0	1.9		1.3	5.0	1.9		0	3.5	-1.0	
Ref No.	Q7505				Q7506				Q7507				Q7508				Q7511			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.5	0	1.9		2.0	5.0	1.6		2.5	0	1.9		2.0	5.0	1.6		0	4.9	0	
PLAY	2.5	0	1.9		2.0	5.0	1.6		2.5	0	1.9		2.0	5.0	1.6		0	4.9	0	
STOP	1.6	0	0.9		1.1	5.0	1.6		1.7	0	1.0		1.1	5.0	1.6		0	4.9	0	
Ref No.	Q7512				Q7513				Q7517				Q7518				QR3002			
MODE	1	2	3		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0.4	13.5	0		-20.2	-20.2	-19.5		0	0	0.6		0	4.3	0		0	2.8	0	
PLAY	0.4	13.5	0		-20.2	-20.2	-19.5		0	0	0.6		0	4.3	0		0	2.8	0	
STOP	0.4	13.6	0		-20.3	-20.3	-19.6		0	0	0.6		0	4.3	0		0	2.8	0	
Ref No.	QR3003				QR4002				QR4003				QR4004				QR4005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	2.8	0		0	0	4.9		0	0	2.5		0	5.2	0		0	5.2	0	
PLAY	0	2.8	0		0	0	4.9		0	0	2.5		0	5.2	0		0	5.2	0	
STOP	0	2.8	0		0	0	4.9		0	2.9	0		0	0	2.9		0	0	0	
Ref No.	QR4012				QR7401				QR7402				QR7403				QR7404			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	5.2	0	5.1		0	3.3	0		0	4.7	0		0	0	4.7		12.1	-0.3	12.0	
PLAY	5.2	0	5.1		0	3.3	0		0	4.7	0		0	0.1	4.7		12.1	12.1	0.1	
STOP	5.2	0	5.1		0	3.3	0		0	4.7	0		0	0.1	4.7		12.1	-0.3	12.0	
Ref No.	QR7405				QR7406				QR7407				QR7501				QR7502			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	12.0	0		0	0.1	0		0	0	0.1		4.9	0	4.9		0	0	2.3	
PLAY	0	0.1	4.9		0	0.1	0		0	0	0.1		4.9	0	4.9		0	0	2.3	
STOP	0	12.0	0		0	0	0		0	0	0		4.9	0	4.9		0	0	2.3	
Ref No.	QR7503				QR7505				QR7507											
MODE	E	C	B		E	C	B		E	C	B									
REC	0	1.0	0		0	4.9	0		4.9	4.8	0									
PLAY	0	1.0	0		0	4.9	0		4.9	4.9	0									
STOP	0	1.0	0		0	4.9	0		4.9	4.9	0									

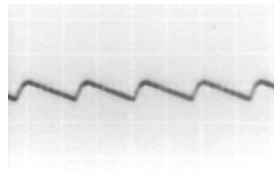
[illegible]



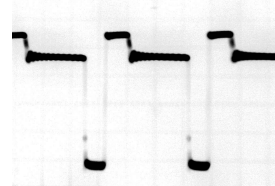
T001-B1 STOP
60Vp-p ($5\mu\text{sec.div}$)



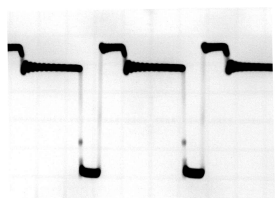
T001-P1 STOP
500Vp-p ($5\mu\text{sec.div}$)



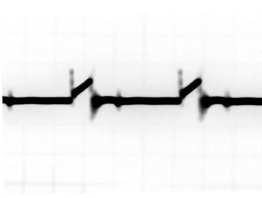
T001-P2 STOP
20Vp-p (5m sec.div)



T001-S3 STOP
50Vp-p ($5\mu\text{sec.div}$)



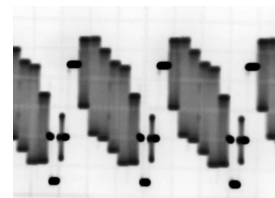
T001-S2,S4 STOP
24Vp-p ($5\mu\text{sec.div}$)



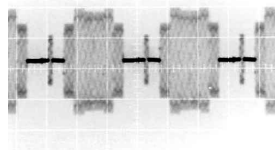
IC001-2 STOP
1.0Vp-p ($5\mu\text{sec.div}$)



IC001-4 STOP
1.0Vp-p ($5\mu\text{sec.div}$)



P7402-2 REC/PLAY
1.0Vp-p ($20\mu\text{sec.div}$)



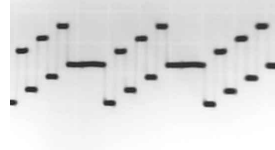
P7402-18 REC/PLAY
0.8Vp-p ($20\mu\text{sec.div}$)



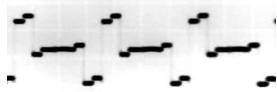
P7402-22 REC/PLAY
1.0Vp-p ($20\mu\text{sec.div}$)



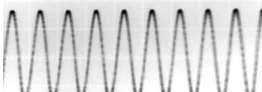
P7402-26 REC/PLAY
1.0Vp-p ($20\mu\text{sec.div}$)



P7402-30 REC/PLAY
0.6Vp-p ($20\mu\text{sec.div}$)



P7402-34 REC/PLAY
0.6Vp-p ($20\mu\text{sec.div}$)



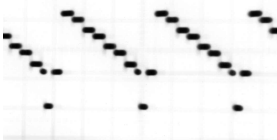
P7402-48,50 REC/PLAY
0.8Vp-p (1m sec.div)



PP7401-16 REC/PLAY
1.2Vp-p ($20\mu\text{sec.div}$)



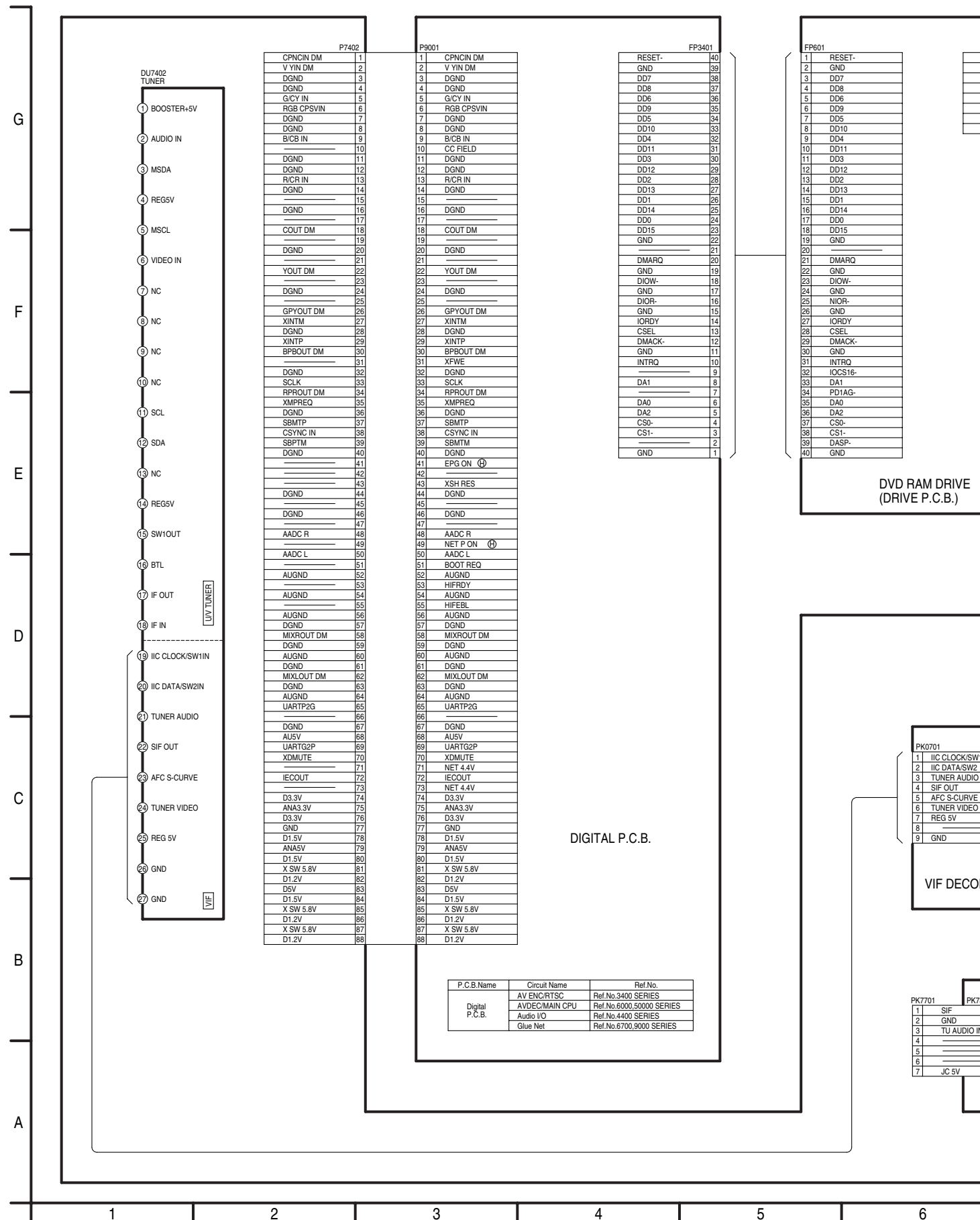
PP7401-18 REC/PLAY
1.2Vp-p ($20\mu\text{sec.div}$)

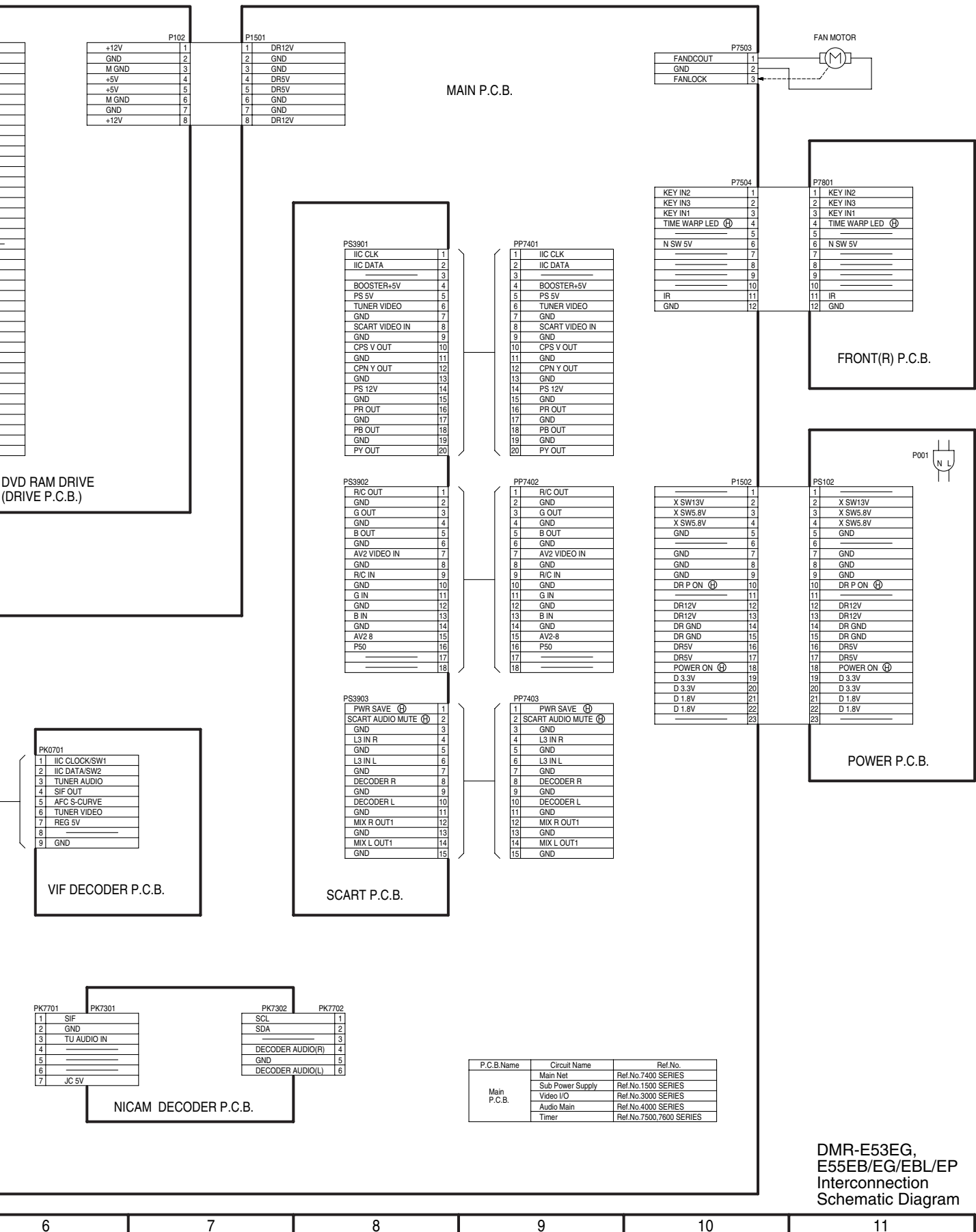


PP7401-20 REC/PLAY
2.0Vp-p ($20\mu\text{sec.div}$)

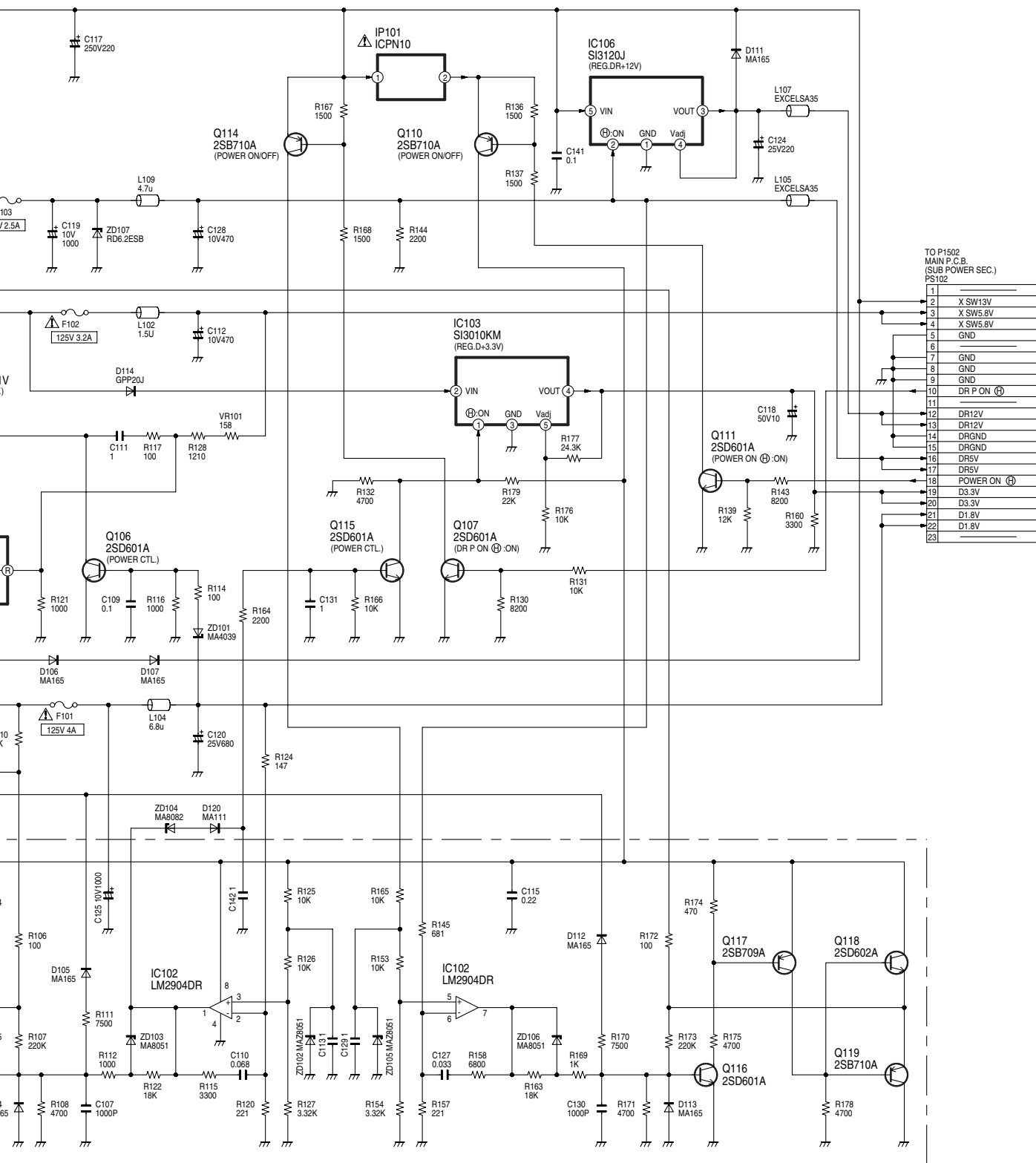
17 Schematic Diagram

17.1. Interconnection Schematic Diagram





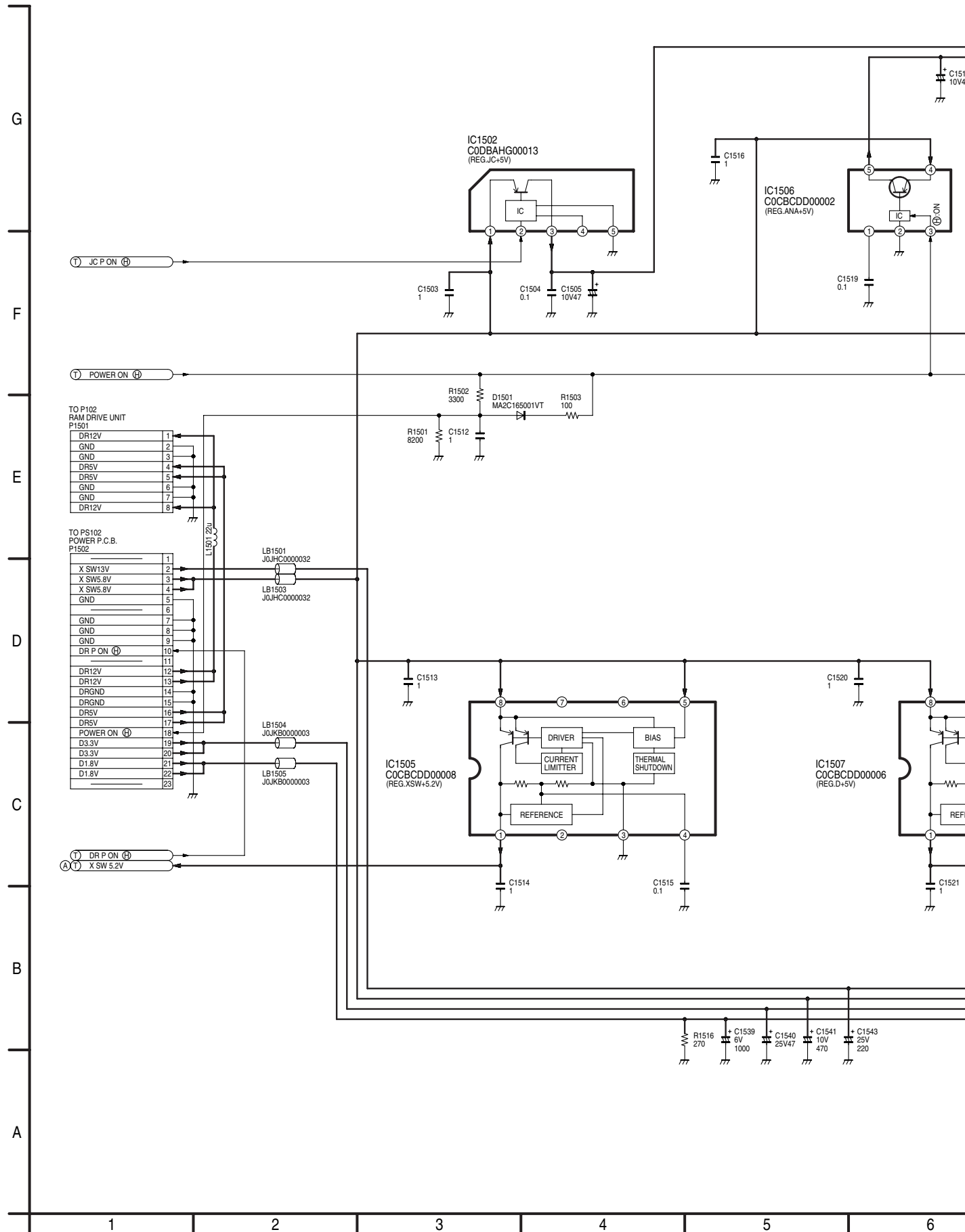




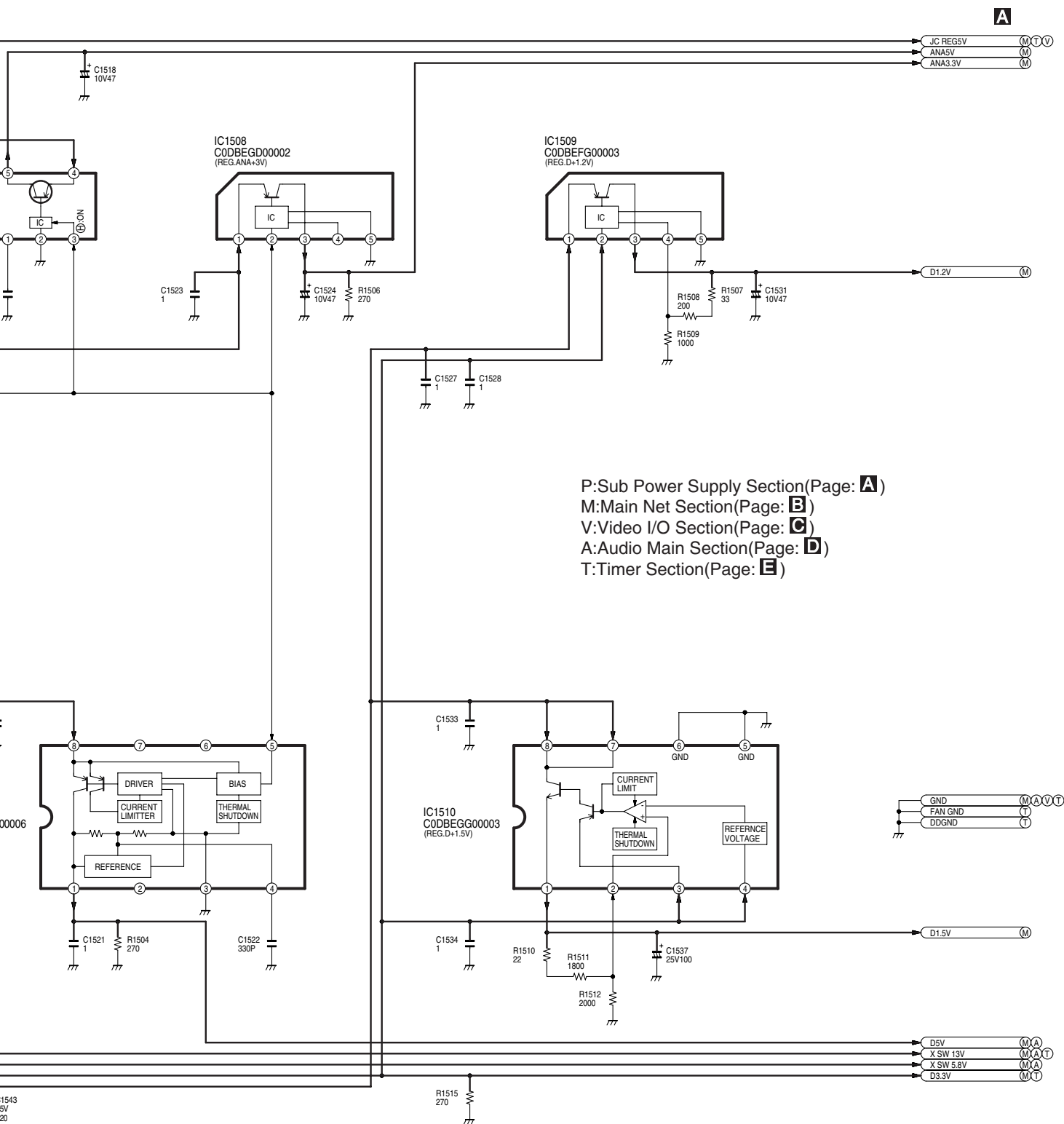
USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN
ITS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG,E55EB/EG/EBL/EP
Main Power Supply
Schematic Diagram

17.3. Sub Power Supply Section (Main P.C.B. (1/5)) Schematic Diagram (P)



(P)



P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

DMR-E53EG,E55EB/EG/EBL/EP
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6

7

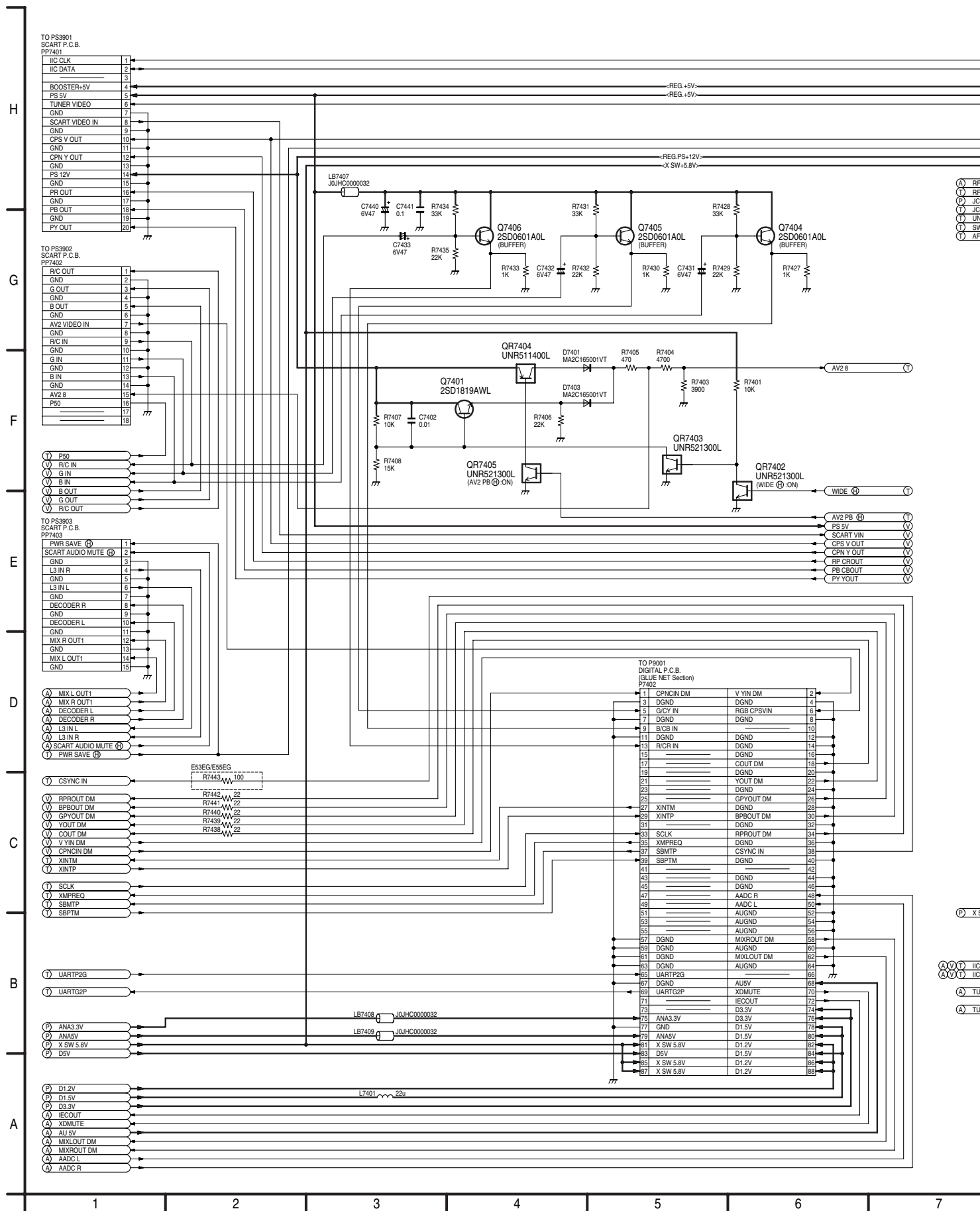
8

9

10

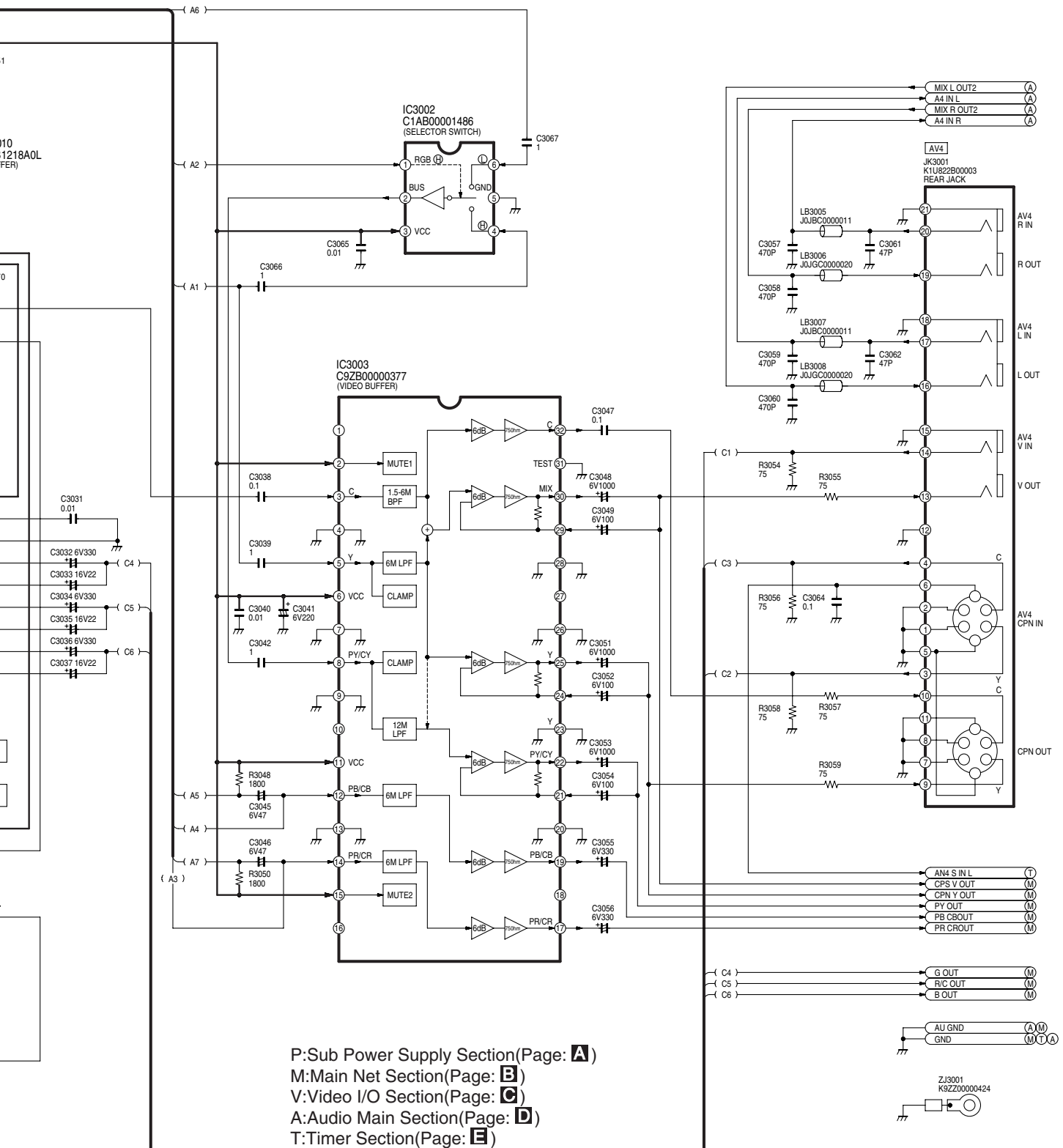
11

17.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)





C



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG,E55EB/EG/EBL/EP
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

6

7

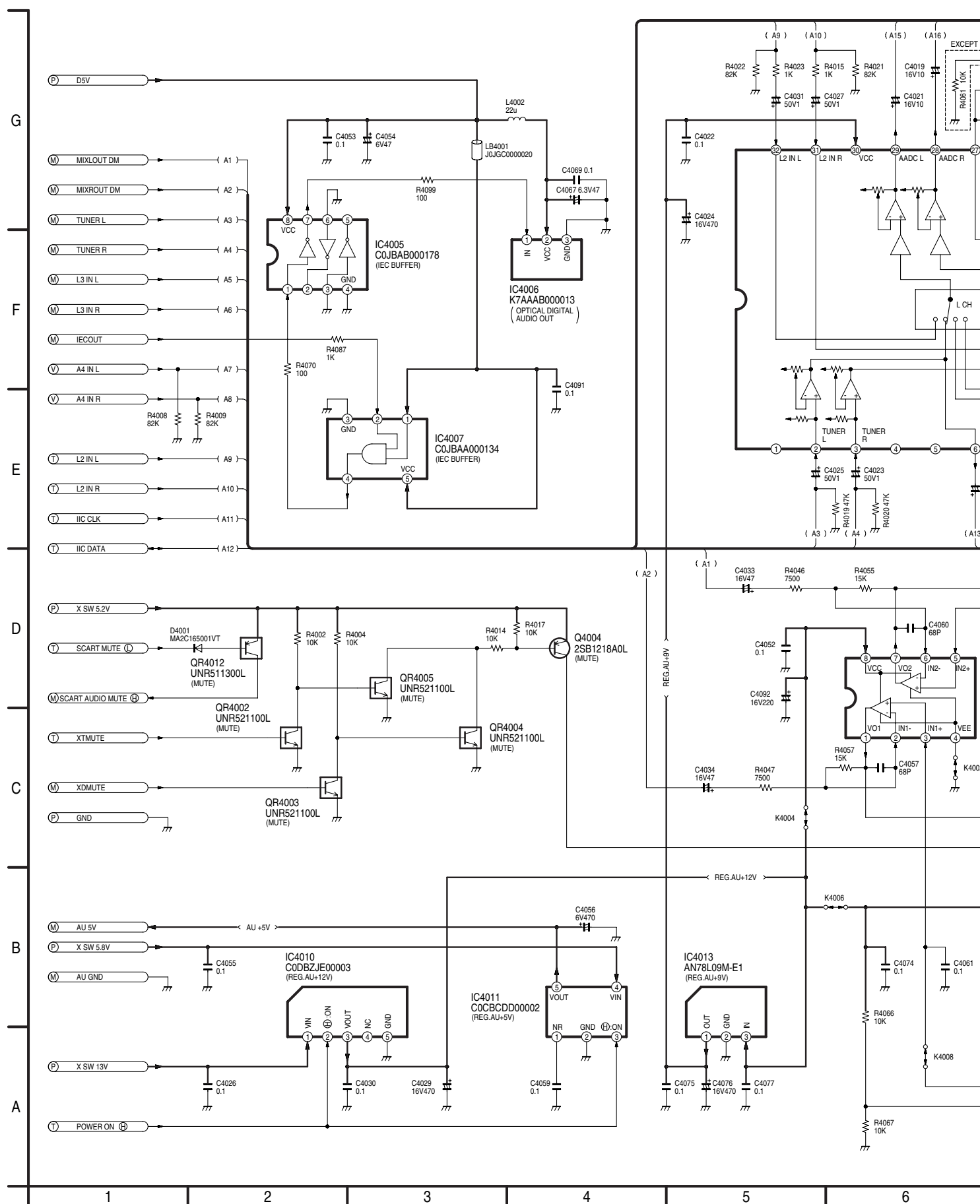
8

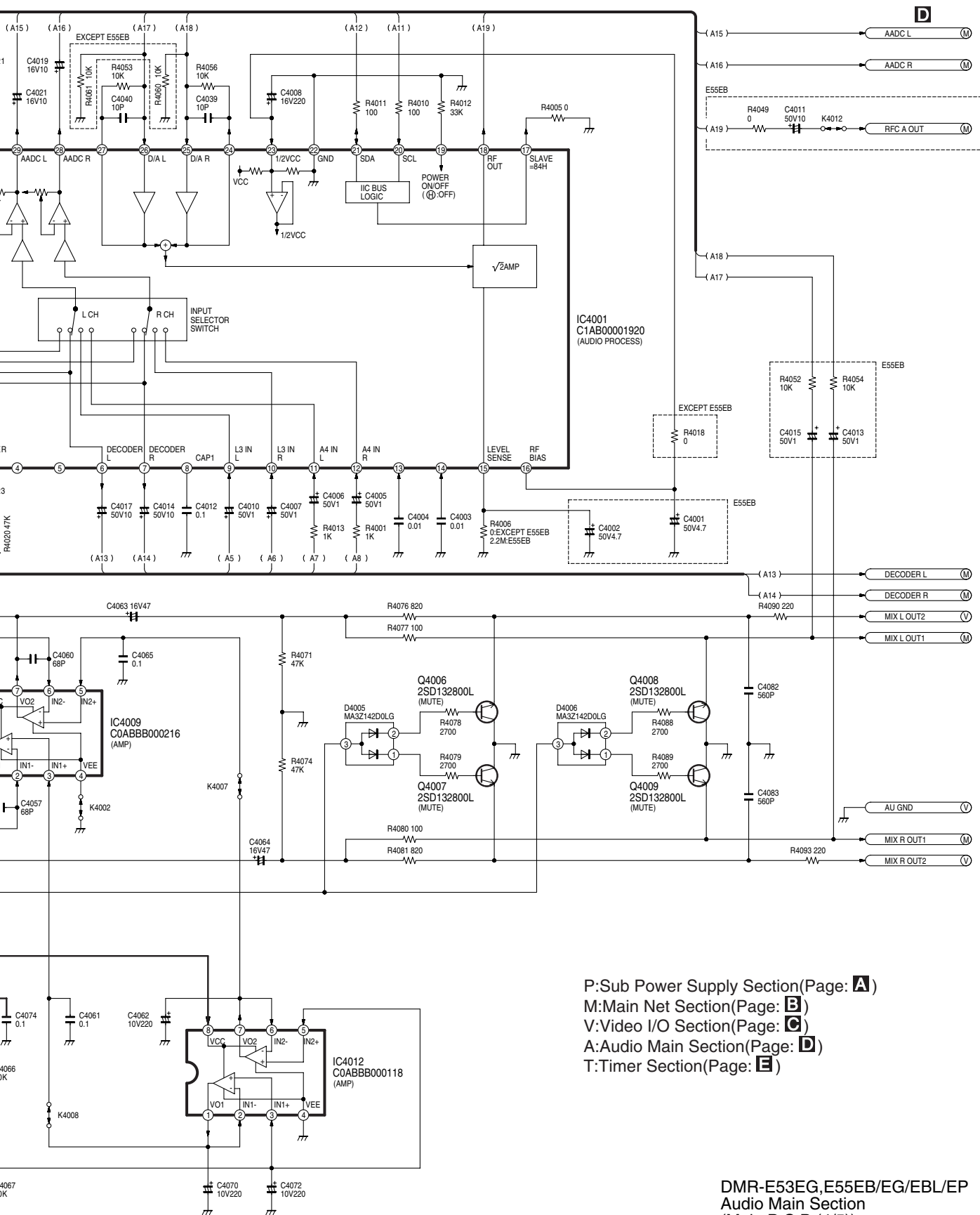
9

10

11

17.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)





P: Sub Power Supply Section (Page: **A**)

M: Main Net Section (Page: **B**)

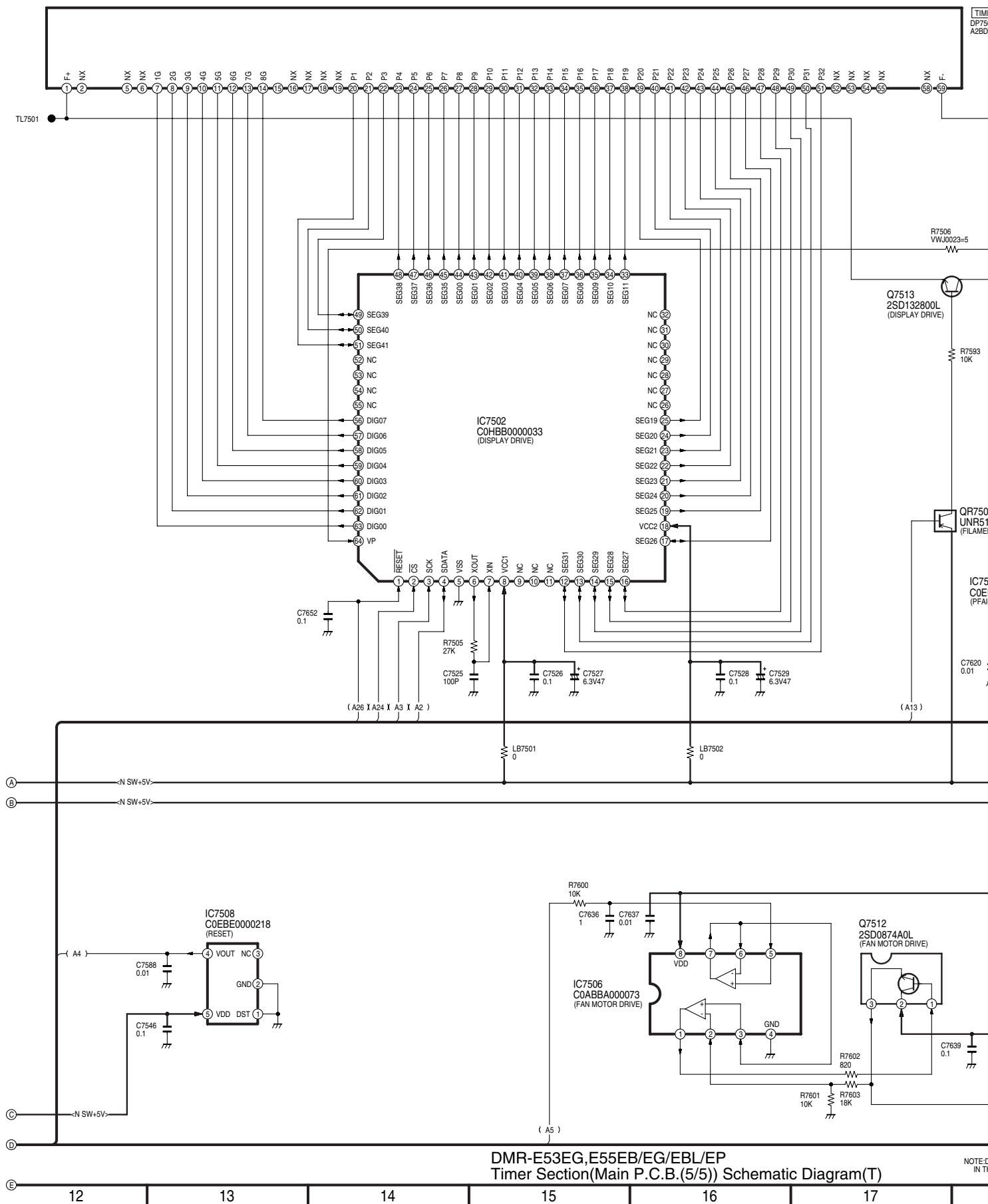
V: Video I/O Section (Page: **C**)

A: Audio Main Section (Page: **D**)

T: Timer Section (Page: **E**)

DMR-E53EG, E55EB/EG/EBL/EP
Audio Main Section
(Main P.C.B. (4/5))
Schematic Diagram (A)









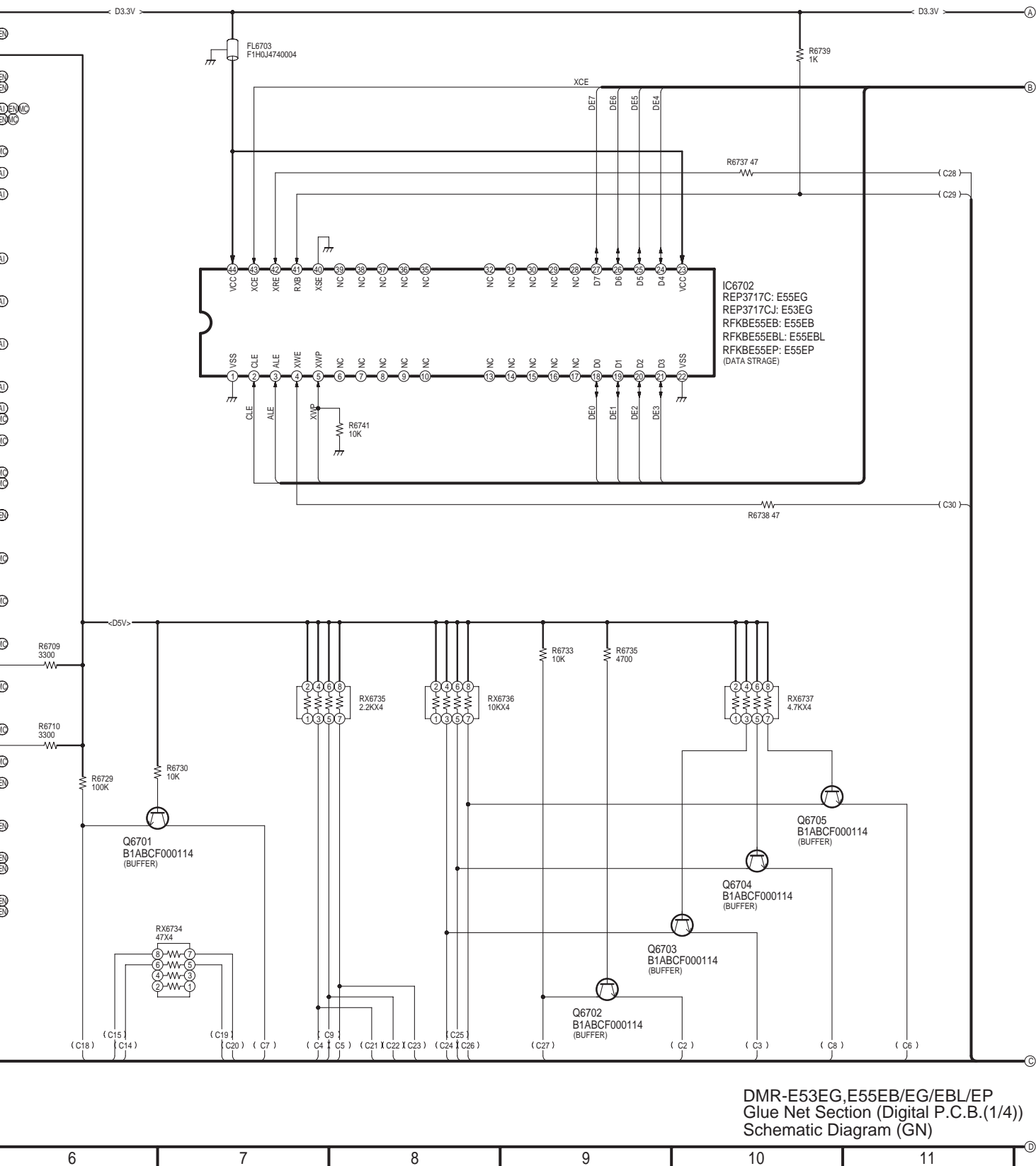
F

GN:Glue Net Section(Page: F)

EN:AVENC/RTSC Section(Page: G)

MC:AVDEC/Main CPU Section(Page: H)

AI:Audio I/O Section(Page: I)



DMR-E53EG,E55EB/EG/EBL/EP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

6

7

8

9

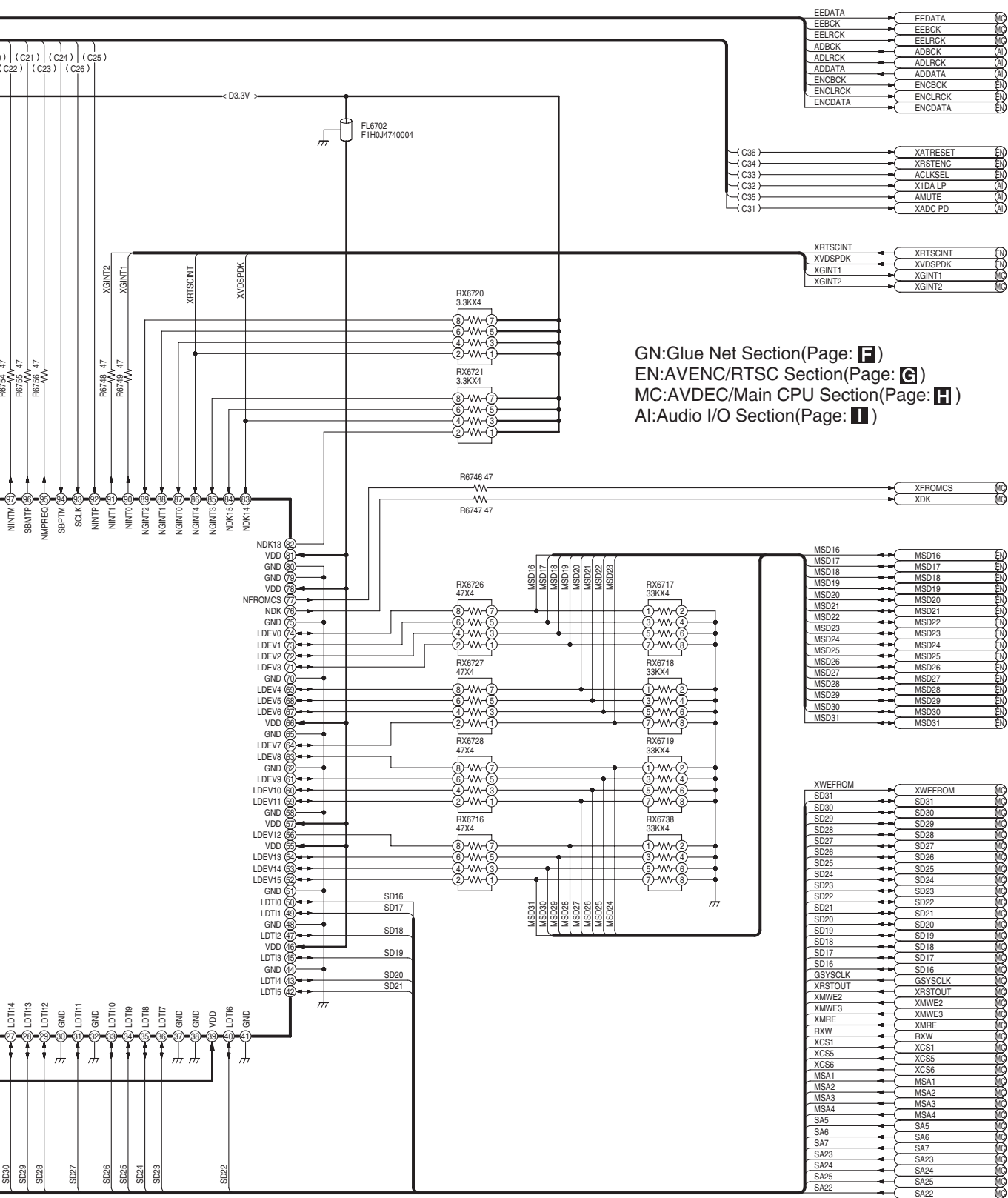
10

11

D



56

**F**

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG,E55EB/EG/EBL/EP
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

18

19

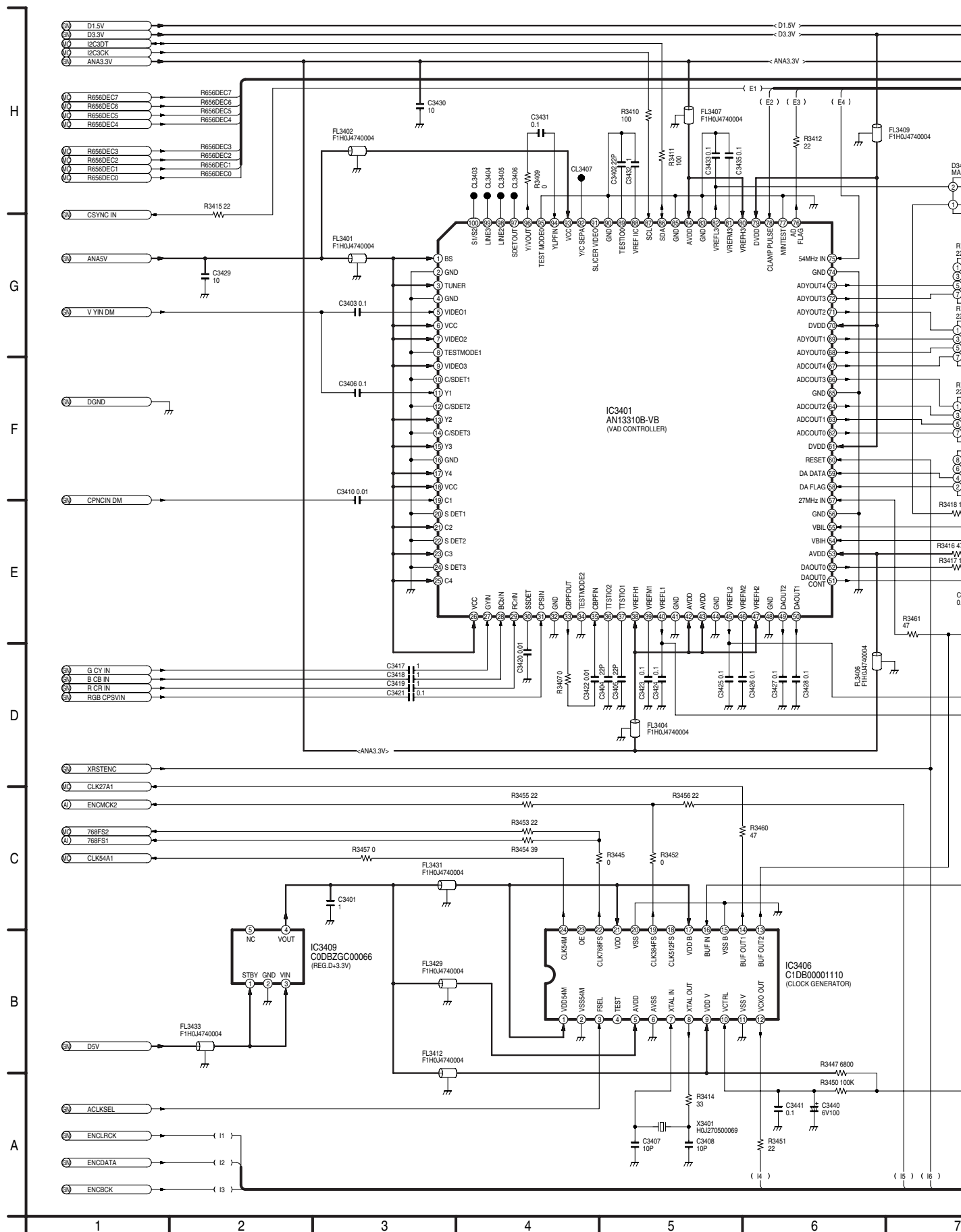
20

21

22

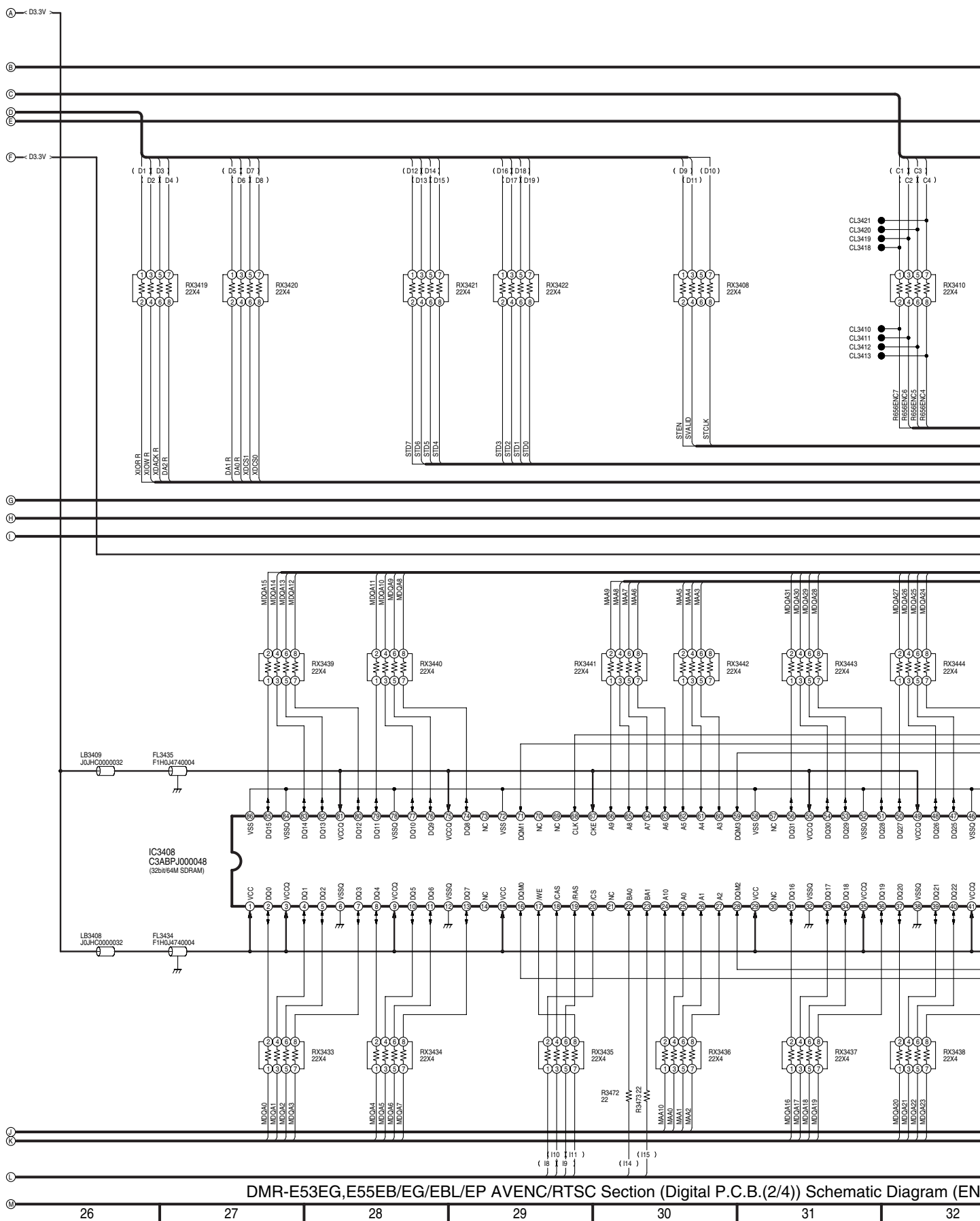


17.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/4))



8	9	10	11	12	13
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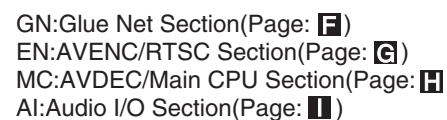


DMR-E53EG,E55EB/EG/EBL/EP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

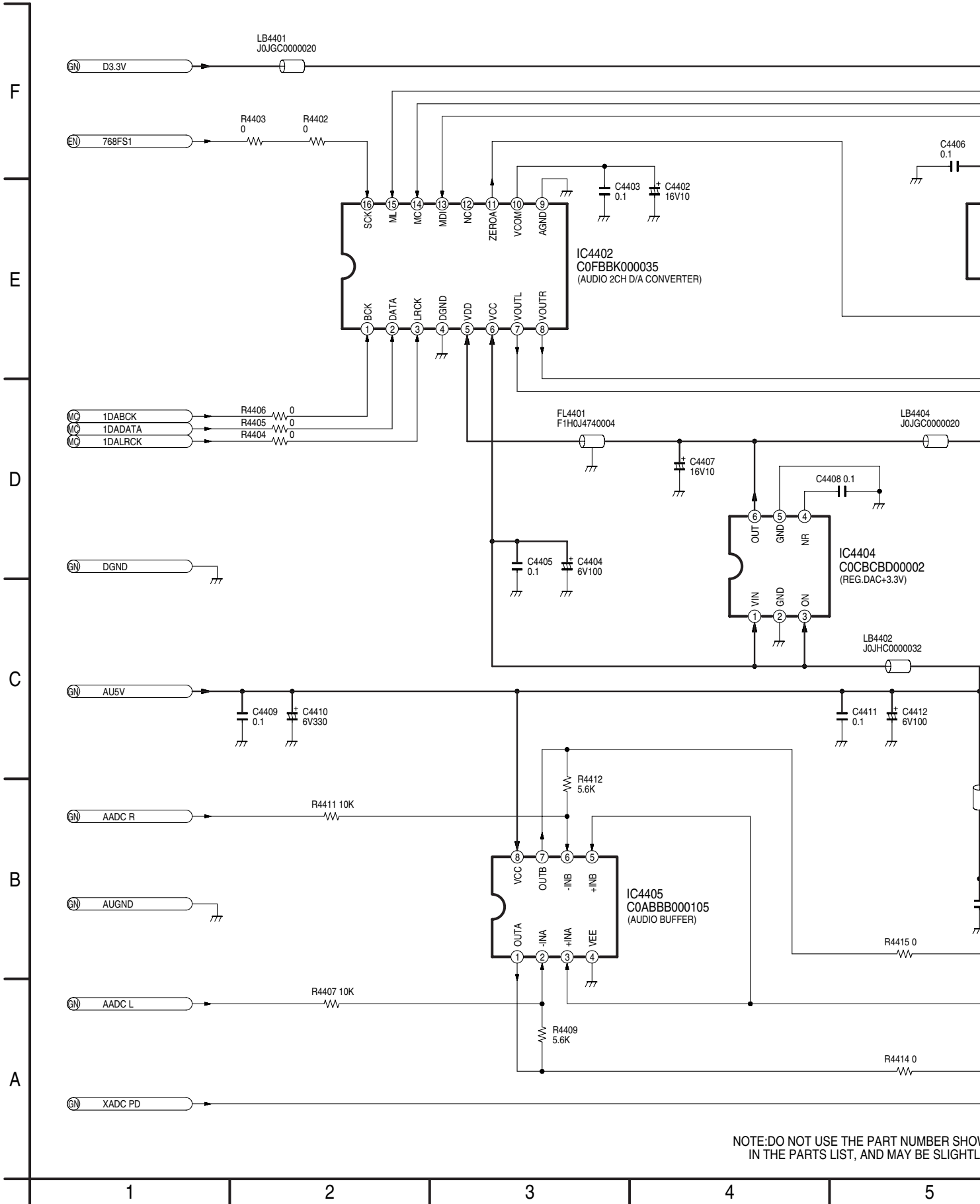
26 27 28 29 30 31 32



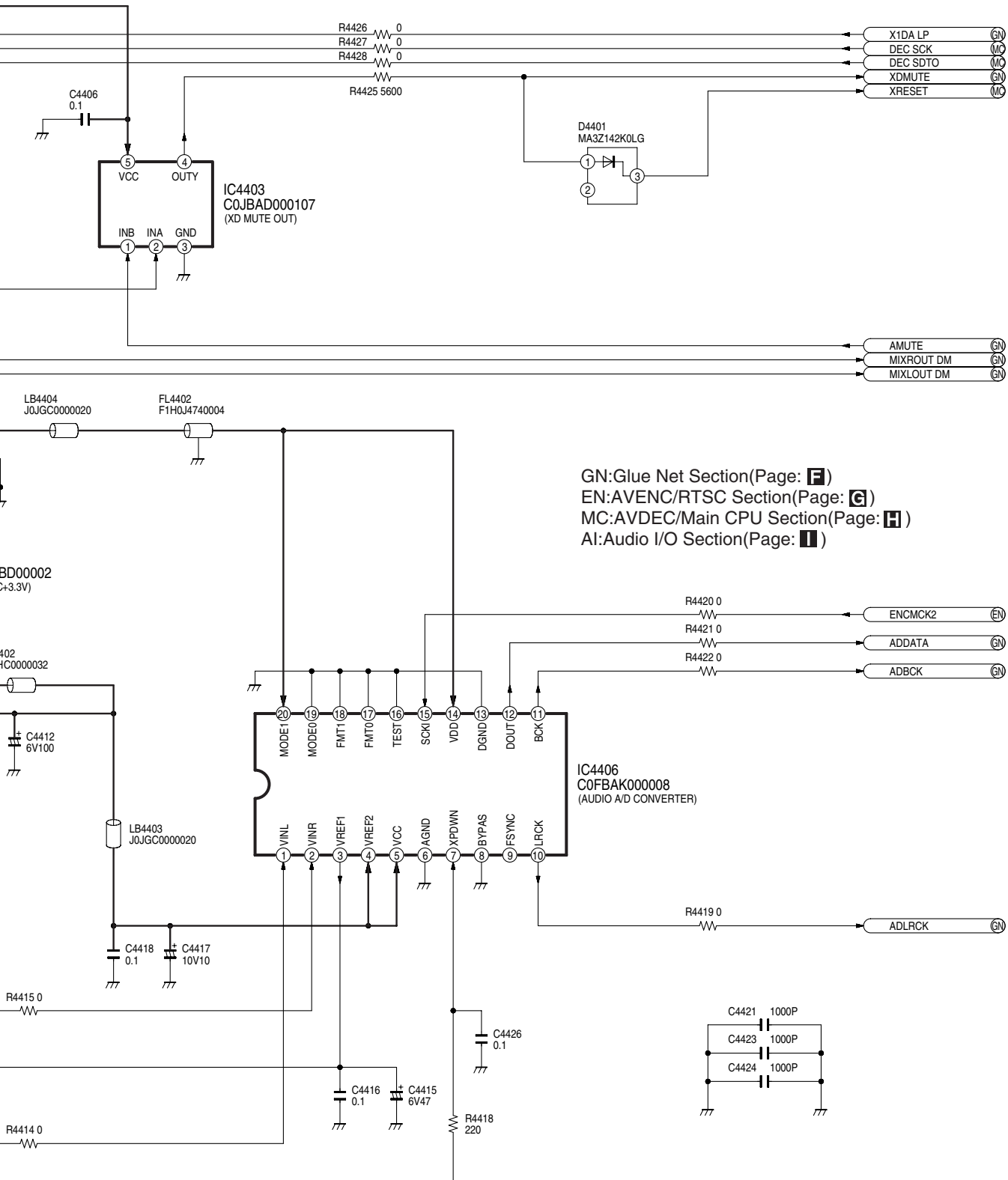




17.11. Audio I/O Section (Digital P.C.B. (4/4)) Schematic Diagram (AI)



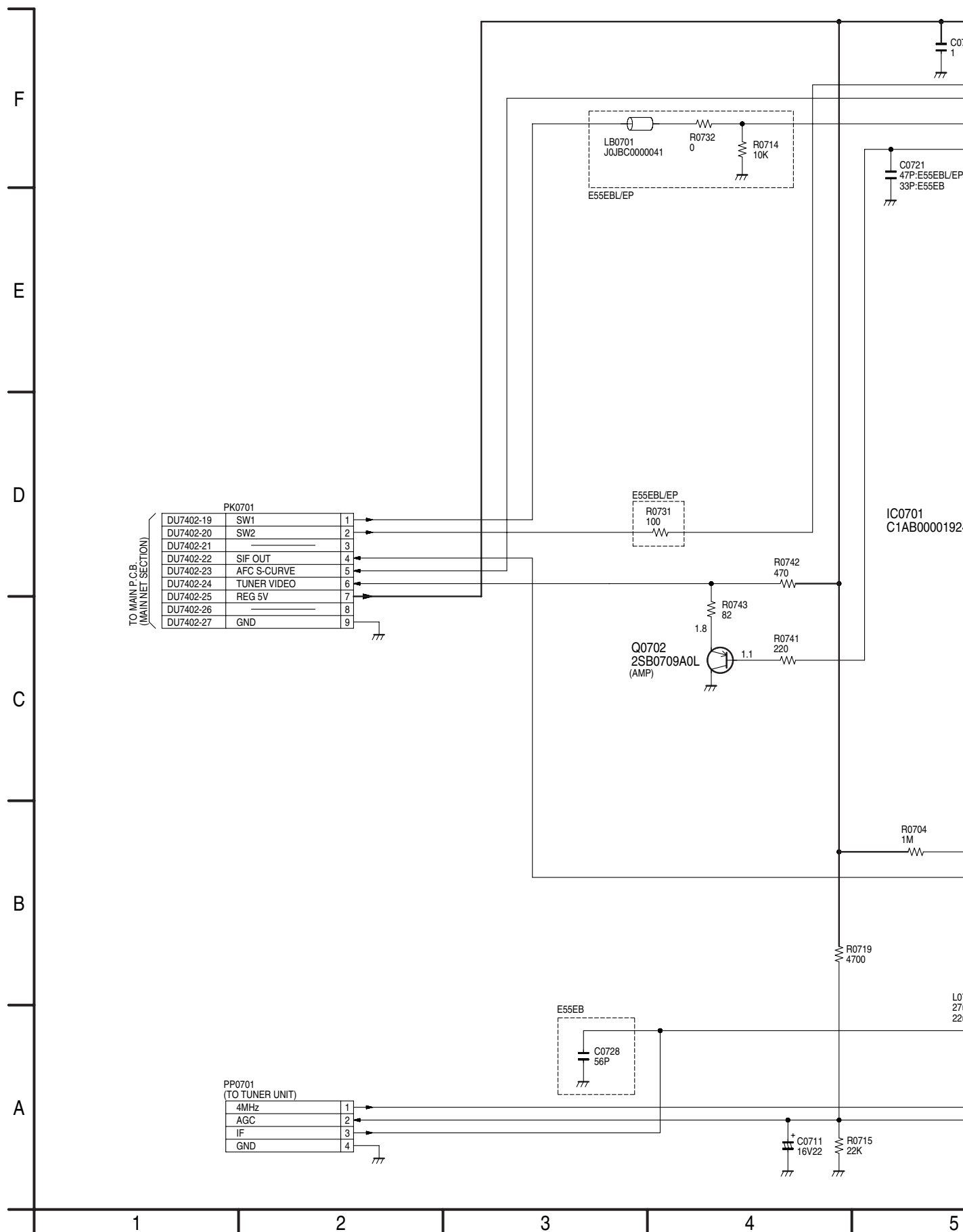
NOTE:DO NOT USE THE PART NUMBER SHOWN
IN THE PARTS LIST, AND MAY BE SLIGHTLY



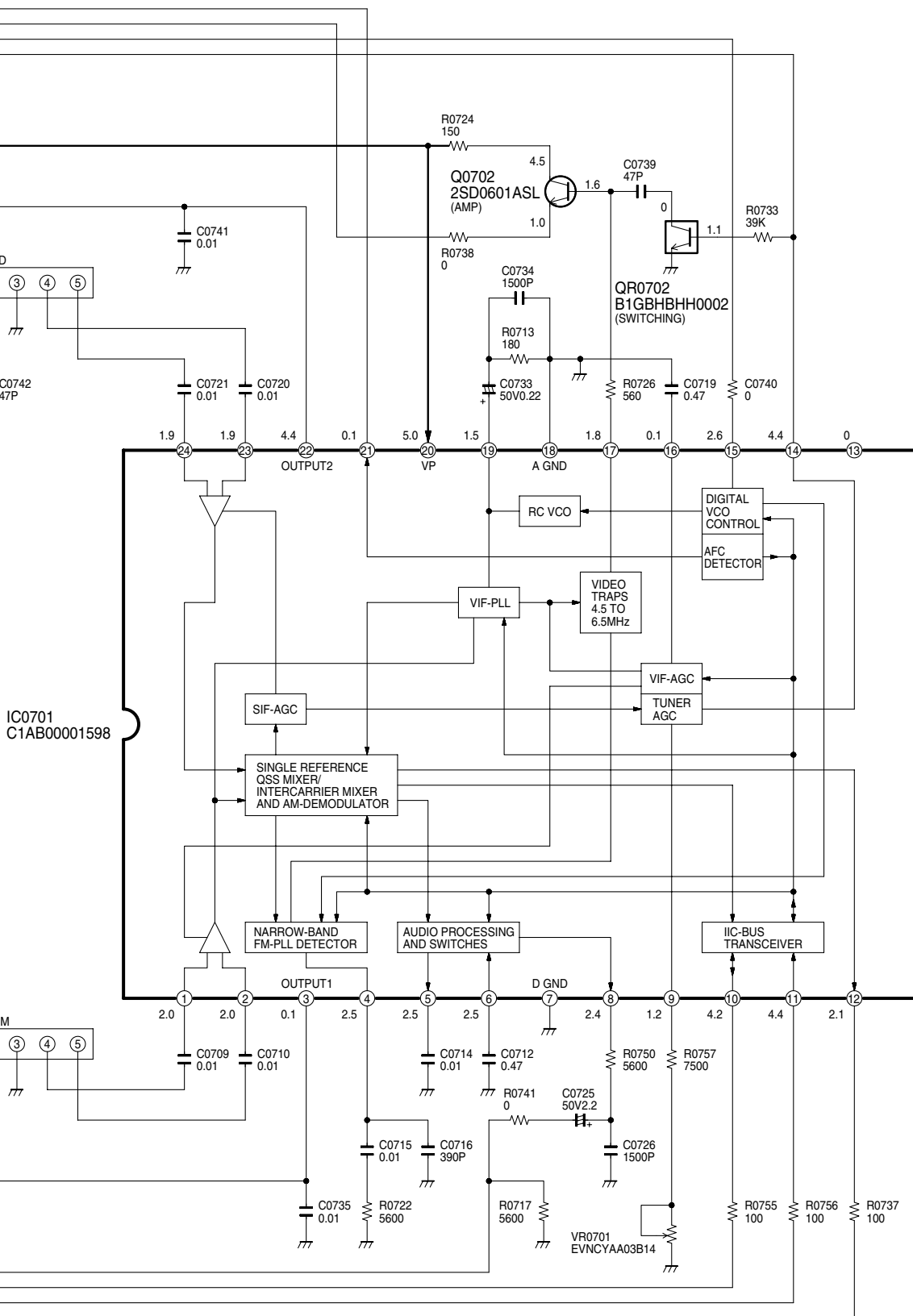
PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG, E55EB/EG/EBL/EP
Audio I/O Section (Digital P.C.B.(4/4))
Schematic Diagram (AI)

17.12. VIF Decoder Schematic Diagram (For DMR-E55EB/EBL/EP)



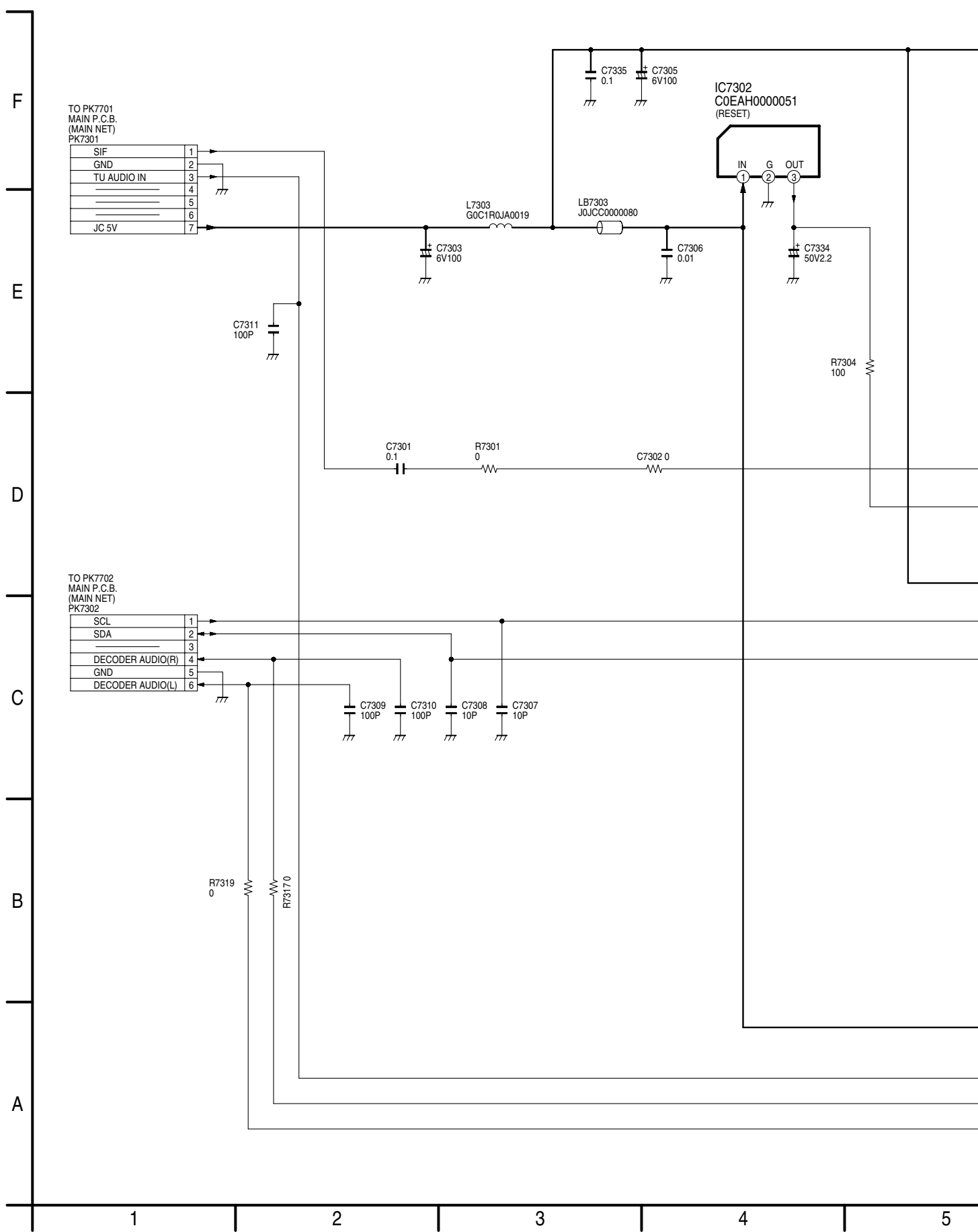


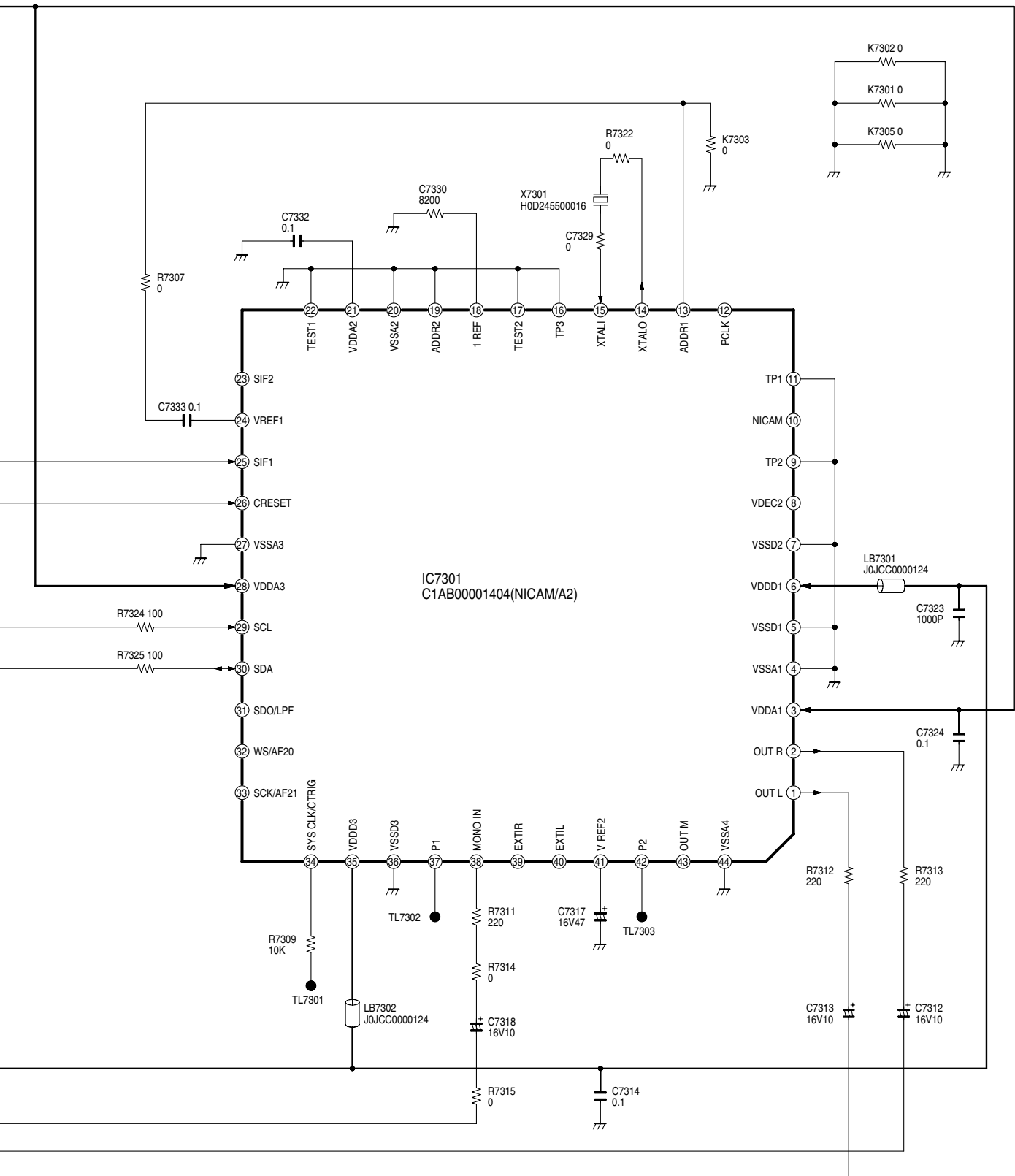


SHOWN ON THIS SCHEMATIC DIAGRAM FOR
A PART, PLEASE REFER TO PARTS LIST.

DMR-E53EG/E55EG
VIF Decoder
Schematic Diagram

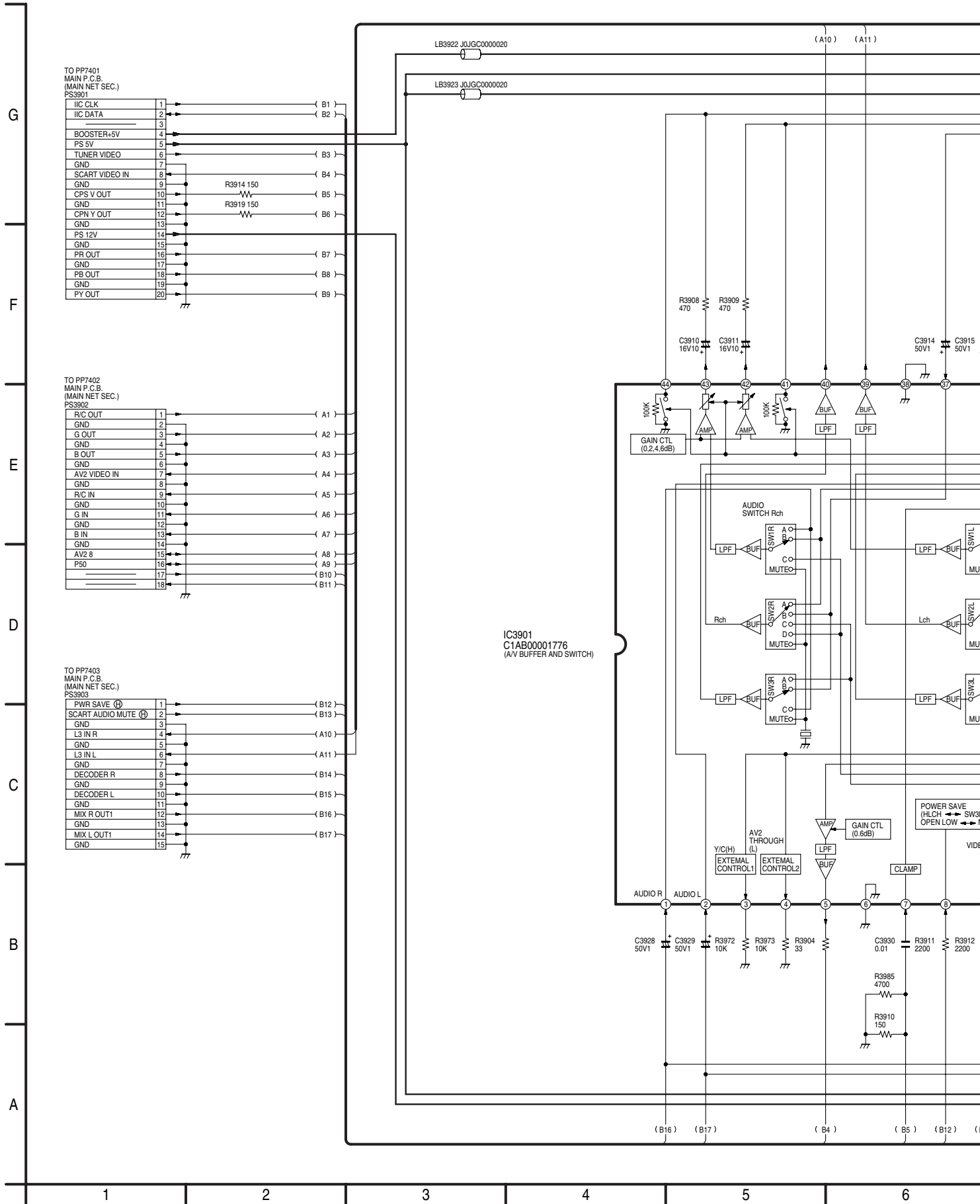
17.14. Nicam Decoder Schematic Diagram

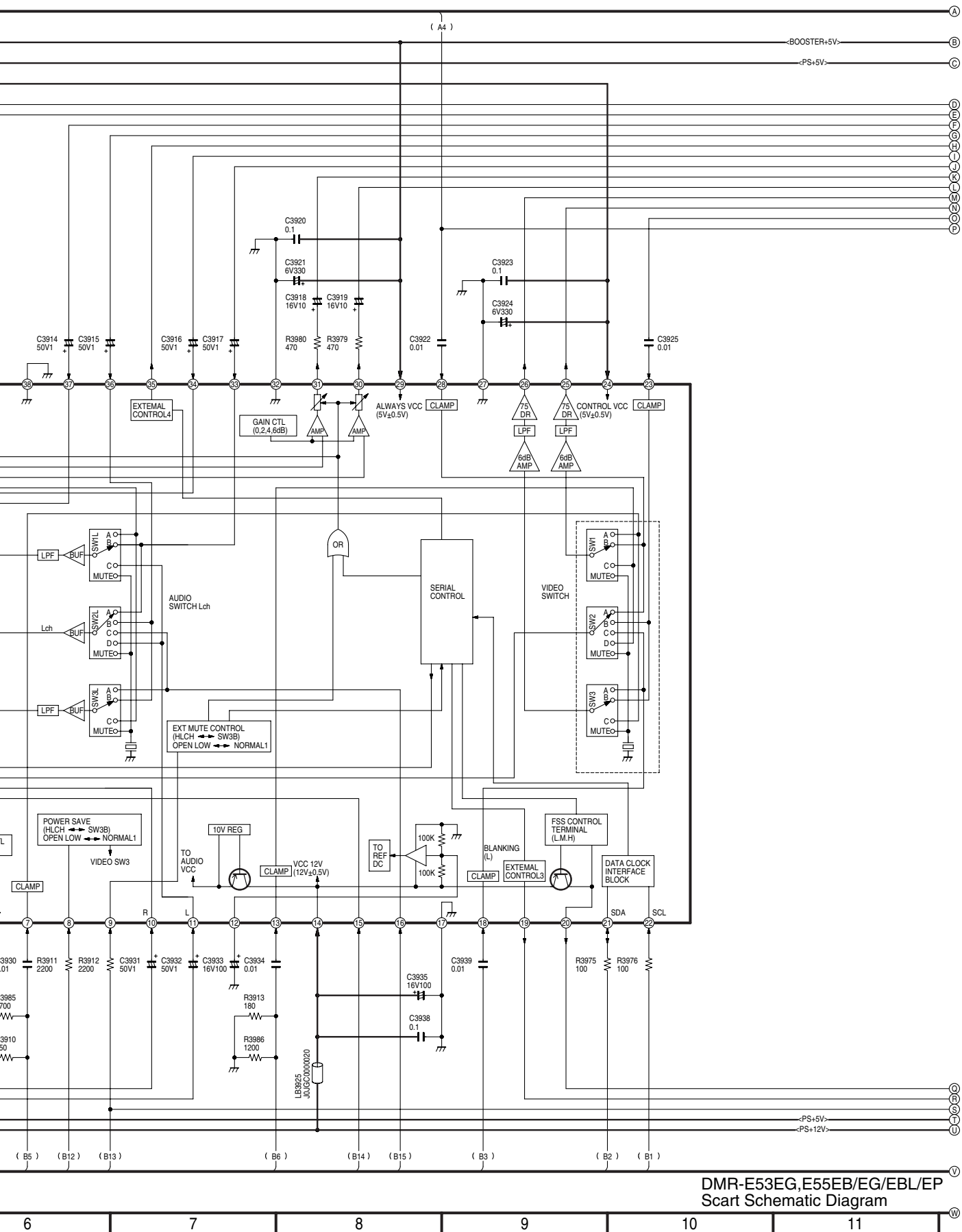


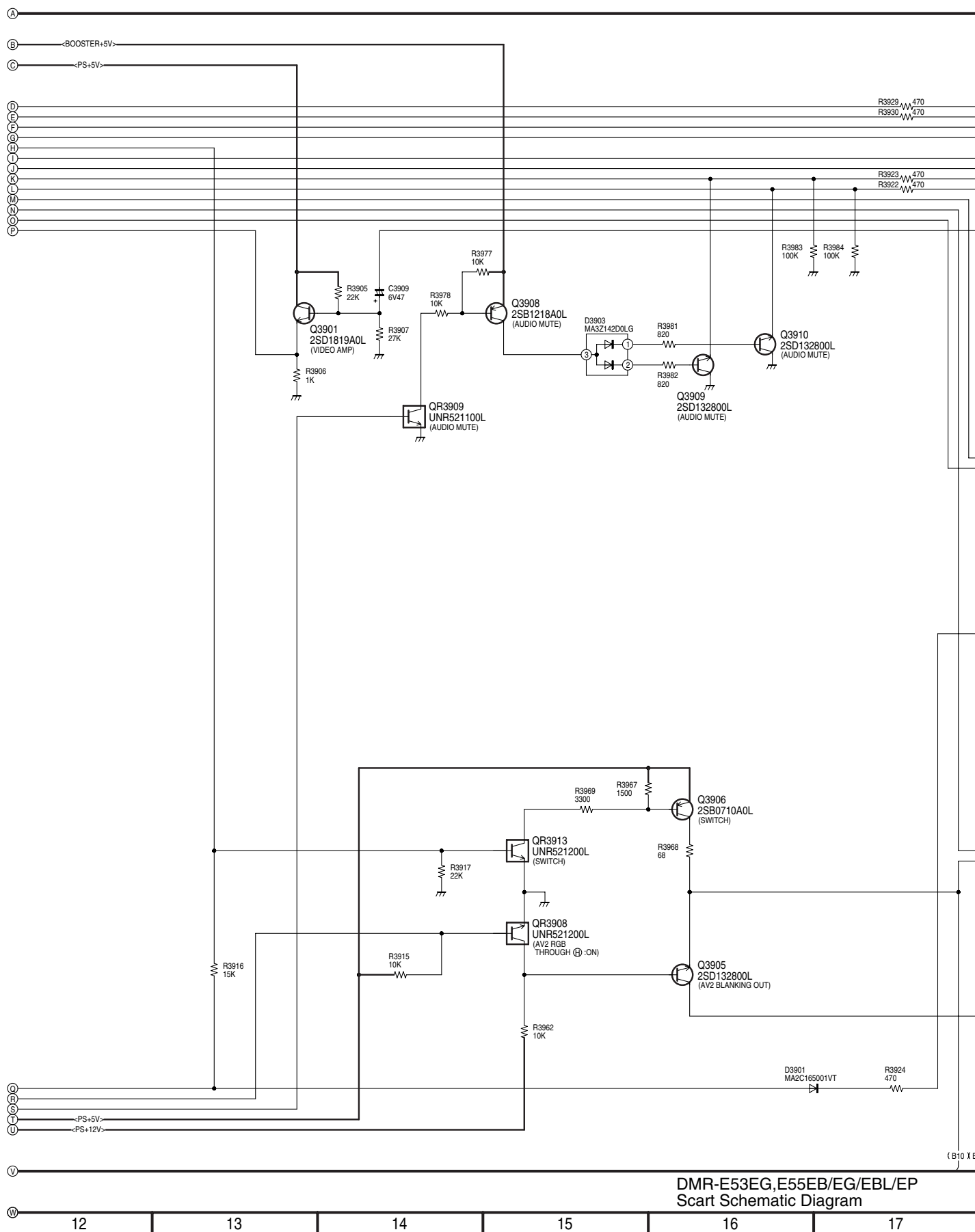


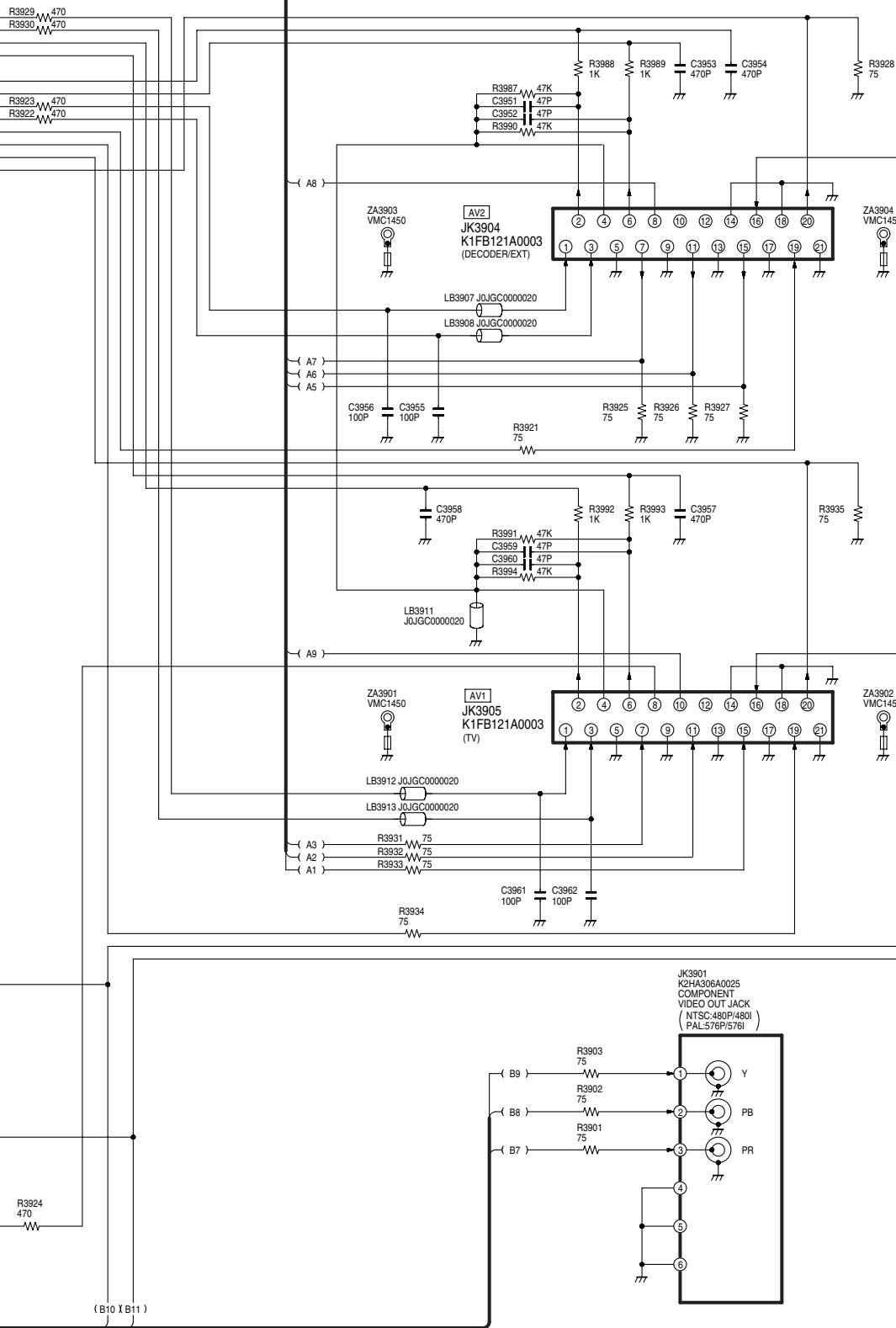
DMR-E53EG,E55EB/EG/EBL/EP
Nicom Decoder Schematic Diagram

17.15. Scart Schematic Diagram









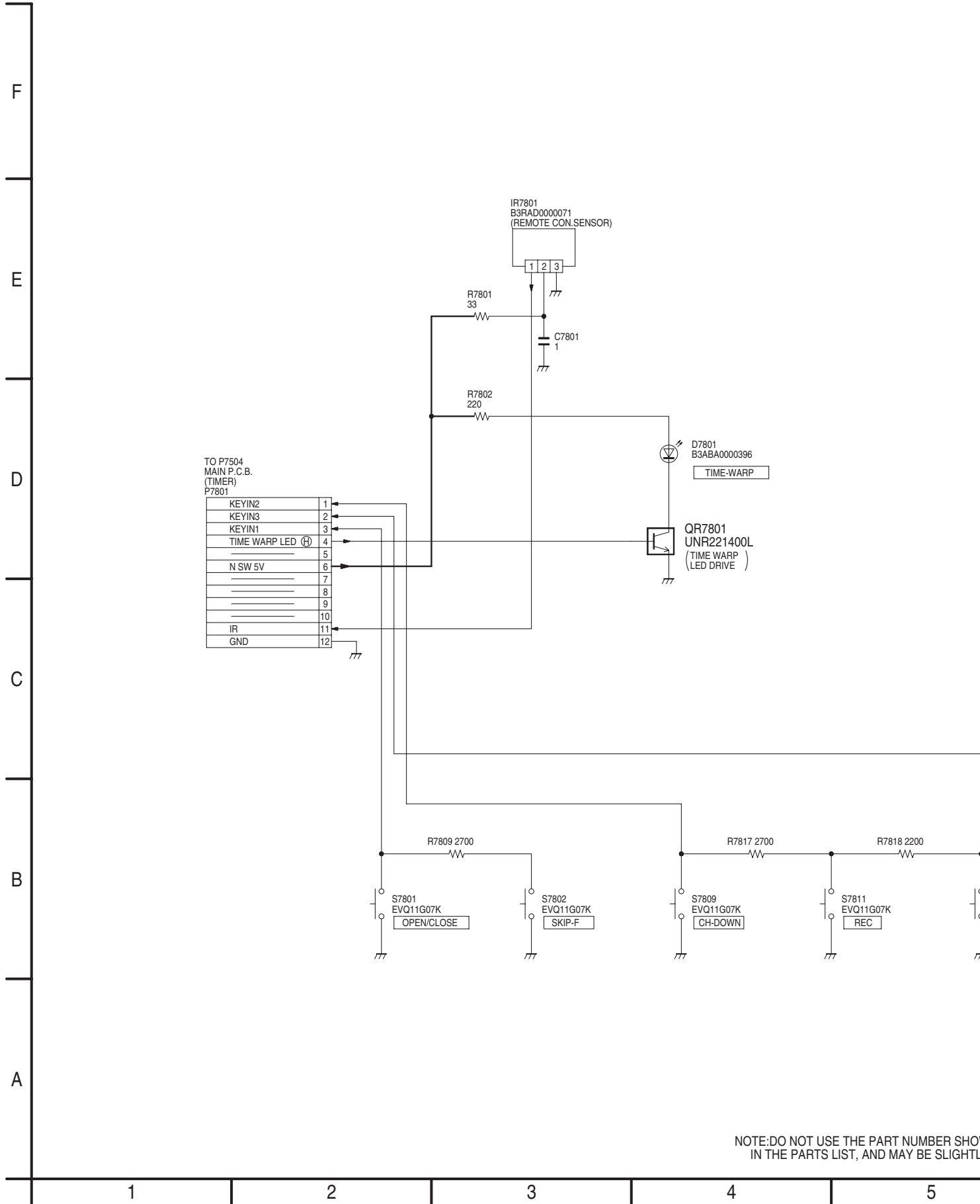
AV2	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(L)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	AV2 +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C IN
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN/Y IN
21	GND

AV1	
1	AUDIO OUT CH2(R)
2	AUDIO IN CH2(R)
3	AUDIO OUT CH1(L)
4	GND(A)
5	GND
6	AUDIO IN CH1(L)
7	BLUE
8	PB +12V
9	GND
10	-CONTROL
11	GREEN
12	-DATA
13	GND
14	GND
15	RED/C OUT
16	BLANKING
17	GND
18	GND
19	VIDEO OUT/Y OUT
20	VIDEO IN
21	GND

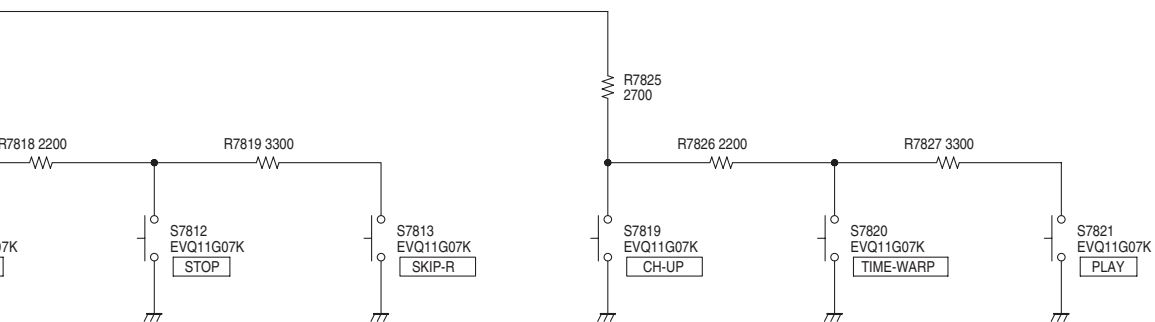
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG, E55EB/EG/EBL/EP
Scart Schematic Diagram

17.16. Front (R) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN
IN THE PARTS LIST, AND MAY BE SLIGHTLY



PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E53EG,E55EB/EG/EBL/EP
Front (R)
Schematic Diagram

5

6

7

8

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IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC3402 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
1	ARDQ0	334	MADQB0	2	DQ0
	ARDQ1	335	MADQB1	4	DQ1
	ARDQ2	336	MADQB2	5	DQ2
	ARDQ3	2	MADQB3	7	DQ3
	ARDQ4	4	MADQB4	8	DQ4
	ARDQ5	5	MADQB5	10	DQ5
	ARDQ6	7	MADQB6	11	DQ6
	ARDQ7	9	MADQB7	13	DQ7
	ARDQ8	16	MADQB8	42	DQ8
	ARDQ9	17	MADQB9	44	DQ9
	ARDQ10	19	MADQB10	45	DQ10
	ARDQ11	20	MADQB11	47	DQ11
	ARDQ12	22	MADQB12	48	DQ12
	ARDQ13	23	MADQB13	50	DQ13
	ARDQ14	25	MADQB14	51	DQ14
	ARDQ15	26	MADQB15	53	DQ15
	ARA0	28	MAB0	23	A0
	ARA1	29	MAB1	24	A1
	ARA2	31	MAB2	25	A2
	ARA3	32	MAB3	26	A3
	ARA4	34	MAB4	29	A4
	ARA5	35	MAB5	30	A5
	ARA6	37	MAB6	31	A6
	ARA7	38	MAB7	32	A7
	ARA8	41	MAB8	33	A8
	ARA9	42	MAB9	34	A9
	ARA10	44	MAB10	35	A10
	ARA11	45	MAB11	22	A11
	ARA12	47	MAB12	36	A12

TC	IC3404 / AV ENC&RTSC		SIGNAL NAME	IC3408 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
2	MDQ0	88	MDQA0	2	DQ0
	MDQ1	89	MDQA1	4	DQ1
	MDQ2	91	MDQA2	5	DQ2
	MDQ3	92	MDQA3	7	DQ3
	MDQ4	93	MDQA4	8	DQ4
	MDQ5	95	MDQA5	10	DQ5
	MDQ6	96	MDQA6	11	DQ6
	MDQ7	97	MDQA7	13	DQ7
	MDQ8	99	MDQA8	74	DQ8
	MDQ9	100	MDQA9	76	DQ9
	MDQ10	101	MDQA10	77	DQ10
	MDQ11	103	MDQA11	79	DQ11
	MDQ12	104	MDQA12	80	DQ12
	MDQ13	105	MDQA13	82	DQ13
	MDQ14	108	MDQA14	83	DQ14
	MDQ15	109	MDQA15	85	DQ15
	MDQ16	115	MDQA16	31	DQ16
	MDQ17	116	MDQA17	33	DQ17
	MDQ18	118	MDQA18	34	DQ18
	MDQ19	119	MDQA19	36	DQ19
	MDQ20	120	MDQA20	37	DQ20
	MDQ21	122	MDQA21	39	DQ21
	MDQ22	123	MDQA22	40	DQ22
	MDQ23	124	MDQA23	42	DQ23
	MDQ24	127	MDQA24	45	DQ24
	MDQ25	128	MDQA25	47	DQ25
	MDQ26	129	MDQA26	48	DQ26
	MDQ27	131	MDQA27	50	DQ27
	MDQ28	132	MDQA28	51	DQ28
	MDQ29	133	MDQA29	53	DQ29
	MDQ30	135	MDQA30	54	DQ30
	MDQ31	136	MDQA31	56	DQ31
	MA0	147	MAA0	25	A0
	MA1	148	MAA1	26	A1
	MA2	149	MAA2	27	A2
	MA3	152	MAA3	60	A3
	MA4	153	MAA4	61	A4
	MA5	154	MAA5	62	A5
	MA6	156	MAA6	63	A6
	MA7	157	MAA7	64	A7
	MA8	158	MAA8	65	A8
	MA9	160	MAA9	66	A9
	MA10	161	MAA10	24	A10

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	FP3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	258	RAMD0	24	DD0
	S1DB1	259	RAMD1	26	DD1
	S1DB2	260	RAMD2	28	DD2
	S1DB3	261	RAMD3	30	DD3
	S1DB4	263	RAMD4	32	DD4
	S1DB5	264	RAMD5	34	DD5
	S1DB6	265	RAMD6	36	DD6
	S1DB7	266	RAMD7	38	DD7
	S1DB8	268	RAMD8	37	DD8
	S1DB9	269	RAMD9	35	DD9
	S1DB10	271	RAMD10	33	DD10
	S1DB11	272	RAMD11	31	DD11
	S1DB12	274	RAMD12	29	DD12
	S1DB13	275	RAMD13	27	DD13
	S1DB14	276	RAMD14	25	DD14
	S1DB15	277	RAMD15	23	DD15

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001 / AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
4	R656OUT0	296	R656ENC0	278	VDIN0
	R656OUT1	297	R656ENC1	277	VDIN1
	R656OUT2	298	R656ENC2	272	VDIN2
	R656OUT3	299	R656ENC3	271	VDIN3
	R656OUT4	301	R656ENC4	270	VDIN4
	R656OUT5	302	R656ENC5	269	VDIN5
	R656OUT6	303	R656ENC6	268	VDIN6
	R656OUT7	304	R656ENC7	266	VDIN7

TC	IC6001/AV DEC&MAIN CPU		SIGNAL NAME	IC3404 / AVENC&RTSC	
	Port Name	Pin No		Pin No	Port Name
5	VDOU0	289	R656DEC0	283	R656IN0
	VDOU1	288	R656DEC1	284	R656IN1
	VDOU2	286	R656DEC2	285	R656IN2
	VDOU3	285	R656DEC3	286	R656IN3
	VDOU4	284	R656DEC4	288	R656IN4
	VDOU5	283	R656DEC5	289	R656IN5
	VDOU6	282	R656DEC6	290	R656IN6
	VDOU7	281	R656DEC7	291	R656IN7

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001/AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
6	STD0	229	STD0	251	STD0
	STD1	230	STD1	250	STD1
	STD2	231	STD2	249	STD2
	STD3	233	STD3	248	STD3
	STD4	234	STD4	247	STD4
	STD5	235	STD5	245	STD5
	STD6	238	STD6	244	STD6
	STD7	239	STD7	243	STD7

IC Pin Terminal Chart (TC7 - TC10)

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50001 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
7	MDQM0	343	DQ0	2	DQ0
	MDQM1	346	DQ1	4	DQ1
	MDQM2	348	DQ2	5	DQ2
	MDQM3	350	DQ3	7	DQ3
	MDQM4	353	DQ4	8	DQ4
	MDQM5	355	DQ5	10	DQ5
	MDQM6	358	DQ6	11	DQ6
	MDQM7	360	DQ7	13	DQ7
	MDQM8	359	DQ8	42	DQ8
	MDQM9	356	DQ9	44	DQ9
	MDQM10	354	DQ10	45	DQ10
	MDQM11	352	DQ11	47	DQ11
	MDQM12	349	DQ12	48	DQ12
	MDQM13	347	DQ13	50	DQ13
	MDQM14	344	DQ14	51	DQ14
	MDQM15	342	DQ15	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50002 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQM16	292	DQ16	2	DQ0
	MDQM17	295	DQ17	4	DQ1
	MDQM18	297	DQ18	5	DQ2
	MDQM19	299	DQ19	7	DQ3
	MDQM20	302	DQ20	8	DQ4
	MDQM21	304	DQ21	10	DQ5
	MDQM22	308	DQ22	11	DQ6
	MDQM23	310	DQ23	13	DQ7
	MDQM24	309	DQ24	42	DQ8
	MDQM25	305	DQ25	44	DQ9
	MDQM26	303	DQ26	45	DQ10
	MDQM27	301	DQ27	47	DQ11
	MDQM28	298	DQ28	48	DQ12
	MDQM29	296	DQ29	50	DQ13
	MDQM30	293	DQ30	51	DQ14
	MDQM31	291	DQ31	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC6005 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
9	MD0	118	MD0	2	DQ0
	MD1	121	MD1	4	DQ1
	MD2	123	MD2	5	DQ2
	MD3	125	MD3	7	DQ3
	MD4	128	MD4	8	DQ4
	MD5	130	MD5	10	DQ5
	MD6	133	MD6	11	DQ6
	MD7	135	MD7	13	DQ7
	MD8	134	MD8	42	DQ8
	MD9	131	MD9	44	DQ9
	MD10	129	MD10	45	DQ10
	MD11	127	MD11	47	DQ11
	MD12	124	MD12	48	DQ12
	MD13	122	MD13	50	DQ13
	MD14	119	MD14	51	DQ14
	MD15	117	MD15	53	DQ15
	MA0	160	MA0	23	A0
	MA1	163	MA1	24	A1
	MA2	165	MA2	25	A2
	MA3	167	MA3	26	A3
	MA4	166	MA4	29	A4
	MA5	164	MA5	30	A5
	MA6	161	MA6	31	A6
	MA7	159	MA7	32	A7
	MA8	156	MA8	33	A8
	MA9	153	MA9	34	A9
	MA10	157	MA10	22	A10
	MA11	151	MA11	35	A11
	MA12	147	MA12	36	NC
	MA13	154	MA13	21	A12
	MA14	152	MA14	20	A13

TC	IC6701 / GLUE		SIGNAL NAME	IC6702 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
10	ECCD0	109	DE0	18	D0
	ECCD1	110	DE1	19	D1
	ECCD2	111	DE2	20	D2
	ECCD3	112	DE3	21	D3
	ECCD4	113	DE4	24	D4
	ECCD5	114	DE5	25	D5
	ECCD6	115	DE6	26	D6
	ECCD7	116	DE7	27	D7

SA0 - SA25 ADDRESS BUS LINE (TC12, TC14-1, TC15-1, TC17, TC18-1)										
TC	12		14-1		15-1		17		18-1	
SIGNAL NAME	IC3404 / AVENC&RTSC		IC6701 / GLUE		IC6001 / AVDEC&MAIN CPU		IC6004 / BUFFER		IC6003 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	28	SA0	-	-	-	-
SA1	-	-	-	-	27	SA1	2	1A1	25	A0
SA2	-	-	-	-	26	SA2	4	1A2	24	A1
SA3	-	-	-	-	25	SA3	6	1A3	23	A2
SA4	-	-	-	-	24	SA4	8	1A4	22	A3
SA5	186	HA4	6	ADRL5	22	SA5	-	-	21	A4
SA6	187	HA5	5	ADRL6	20	SA6	-	-	20	A5
SA7	188	HA6	4	ADRL7	19	SA7	-	-	19	A6
SA8	189	HA7	-	-	18	SA8	-	-	18	A7
SA9	191	HA8	-	-	17	SA9	-	-	8	A8
SA10	192	HA9	-	-	16	SA10	-	-	7	A9
SA11	194	HA10	-	-	15	SA11	-	-	6	A10
SA12	195	HA11	-	-	14	SA12	-	-	5	A11
SA13	-	-	-	-	12	SA13	-	-	4	A12
SA14	-	-	-	-	11	SA14	-	-	3	A13
SA15	-	-	-	-	10	SA15	-	-	2	A14
SA16	-	-	-	-	9	SA16	-	-	1	A15
SA17	-	-	-	-	8	SA17	-	-	48	A16
SA18	-	-	-	-	7	SA18	-	-	17	A17
SA19	-	-	-	-	6	SA19	-	-	16	A18
SA20	-	-	-	-	3	SA20	-	-	-	-
SA21	-	-	-	-	2	SA21	-	-	-	-
SA22	-	-	12	ADR22	1	SA22	-	-	-	-
SA23	-	-	13	ADRH0	363	SA23	-	-	-	-
SA24	-	-	14	ADRH1	362	SA24	-	-	-	-
SA25	-	-	15	ADRH2	361	SA25	-	-	-	-

SD16 - SD31 DATA BUS LINE (TC14-2, TC15-2, TC18-2)						
TC	14-2		15-2		18-2	
SIGNAL NAME	IC6701 / GLUE		IC6001 / AVDEC&MAIN CPU		IC6003 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	50	LDTI0	67	SD16	29	I/O0
SD17	49	LDTI1	66	SD17	31	I/O1
SD18	47	LDTI2	65	SD18	33	I/O2
SD19	45	LDTI3	64	SD19	35	I/O3
SD20	43	LDTI4	63	SD20	38	I/O4
SD21	42	LDTI5	62	SD21	40	I/O5
SD22	40	LDTI6	61	SD22	42	I/O6
SD23	36	LDTI7	59	SD23	44	I/O7
SD24	35	LDTI8	58	SD24	30	I/O8
SD25	34	LDTI9	57	SD25	32	I/O9
SD26	33	LDTI10	56	SD26	34	I/O10
SD27	31	LDTI11	55	SD27	36	I/O11
SD28	29	LDTI12	54	SD28	39	I/O12
SD29	28	LDTI13	53	SD29	41	I/O13
SD30	27	LDTI14	51	SD30	43	I/O14
SD31	26	LDTI15	50	SD31	45	I/O15

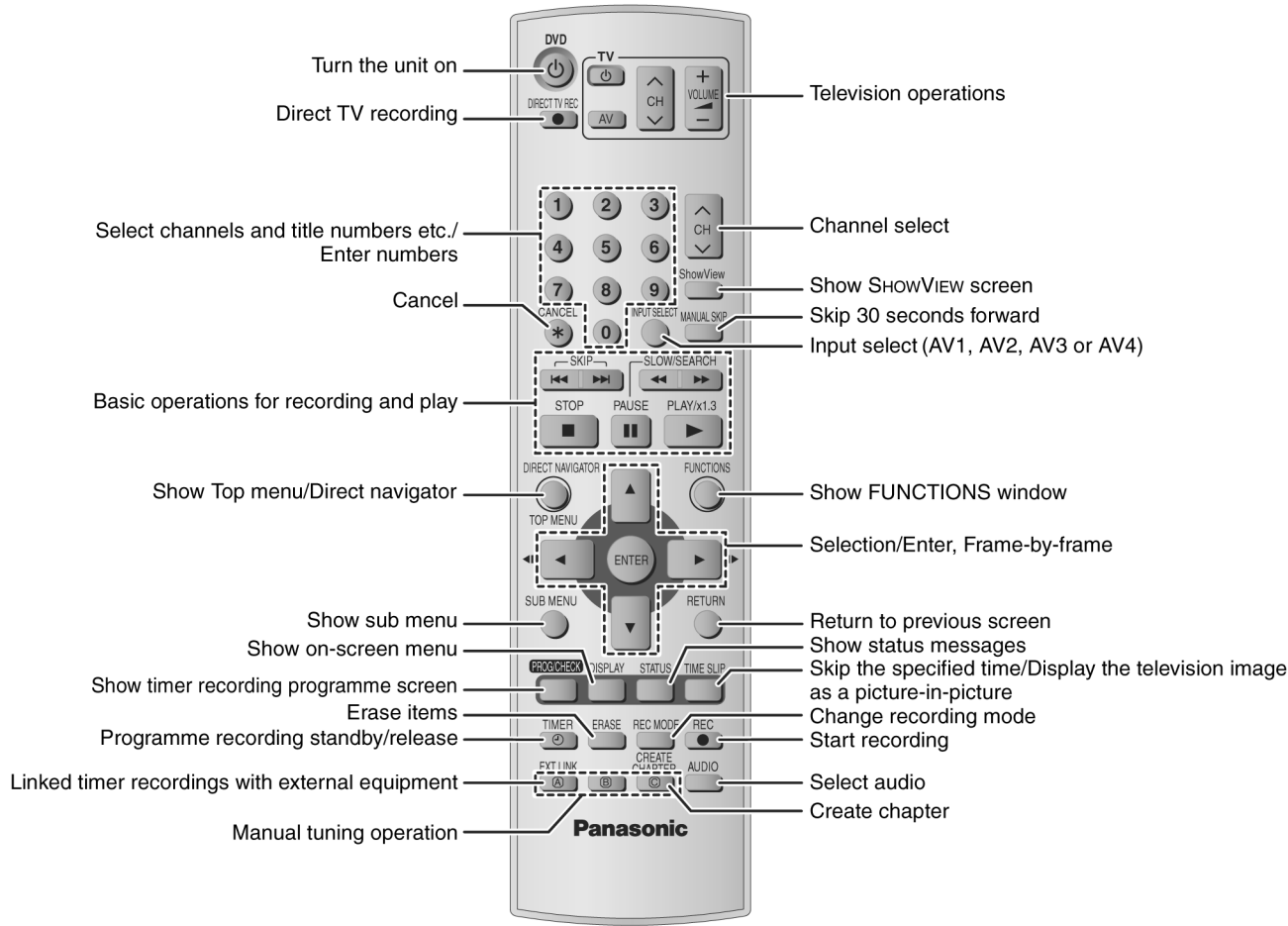
MSD16 - MSD31 DATA BUS LINE (TC11-1, TC13-1)

TC	11-1		13-1	
SIGNAL NAME	IC3404 / AVENC&RTSC		IC6701 / GLUE	
	Pin No	Port Name	Pin No	Port Name
MSD16	203	HD0	74	LDEV0
MSD17	204	HD1	73	LDEV1
MSD18	206	HD2	72	LDEV2
MSD19	207	HD3	71	LDEV3
MSD20	209	HD4	69	LDEV4
MSD21	210	HD5	68	LDEV5
MSD22	212	HD6	67	LDEV6
MSD23	213	HD7	64	LDEV7
MSD24	215	HD8	63	LDEV8
MSD25	216	HD9	61	LDEV9
MSD26	217	HD10	60	LDEV10
MSD27	218	HD11	59	LDEV11
MSD28	220	HD12	56	LDEV12
MSD29	221	HD13	54	LDEV13
MSD30	223	HD14	53	LDEV14
MSD31	224	HD15	52	LDEV15

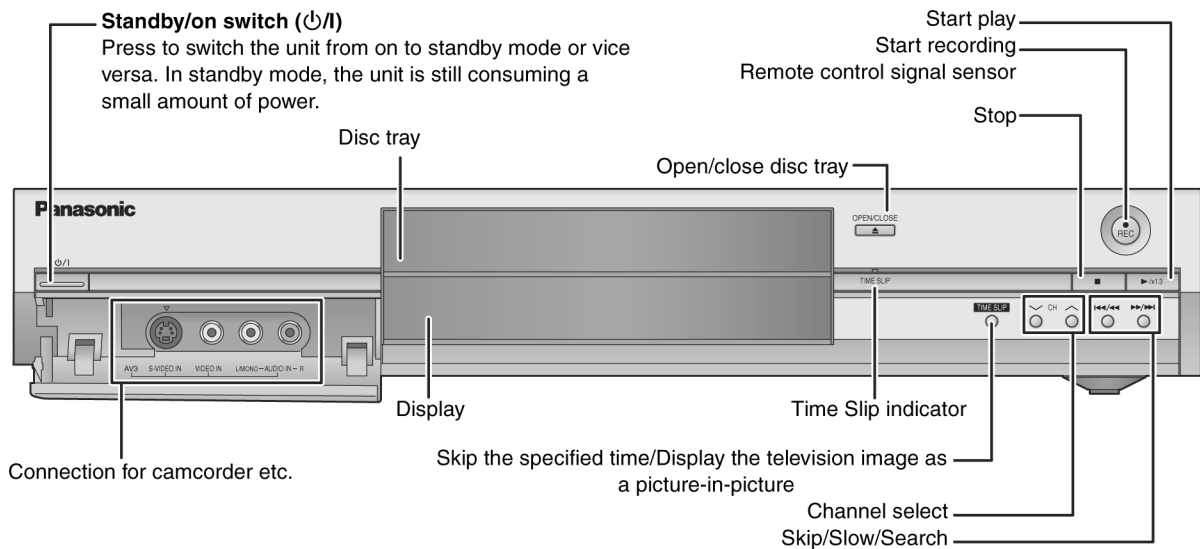
MSA1 - MSA4 ADDRESS BUS LINE (TC11, TC13-2, TC16)

TC	11		13-2		16	
SIGNAL NAME	IC3404/AVENC&RTSC		IC6701/GLUE		IC6004/BUFFER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	107	HA0	10	ADRL1	18	1Y1
MSA2	106	HA1	9	ADRL2	16	1Y2
MSA3	105	HA2	8	ADRL3	14	1Y3
MSA4	104	HA3	7	ADRL4	12	1Y4

Remote control

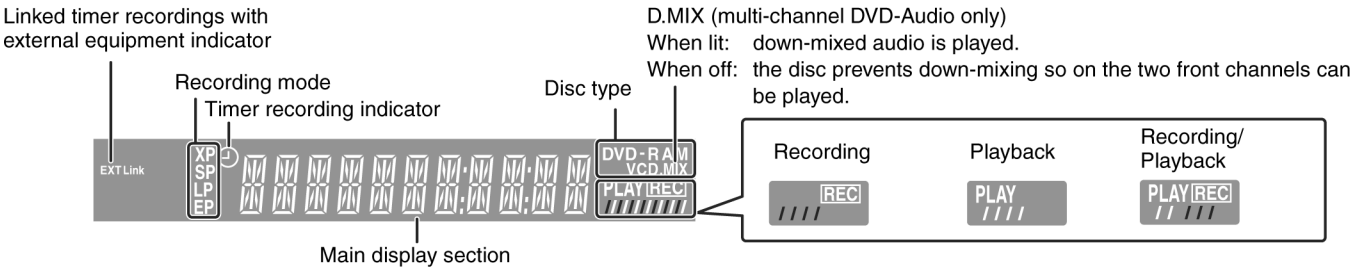


Main unit



Rear panel terminals

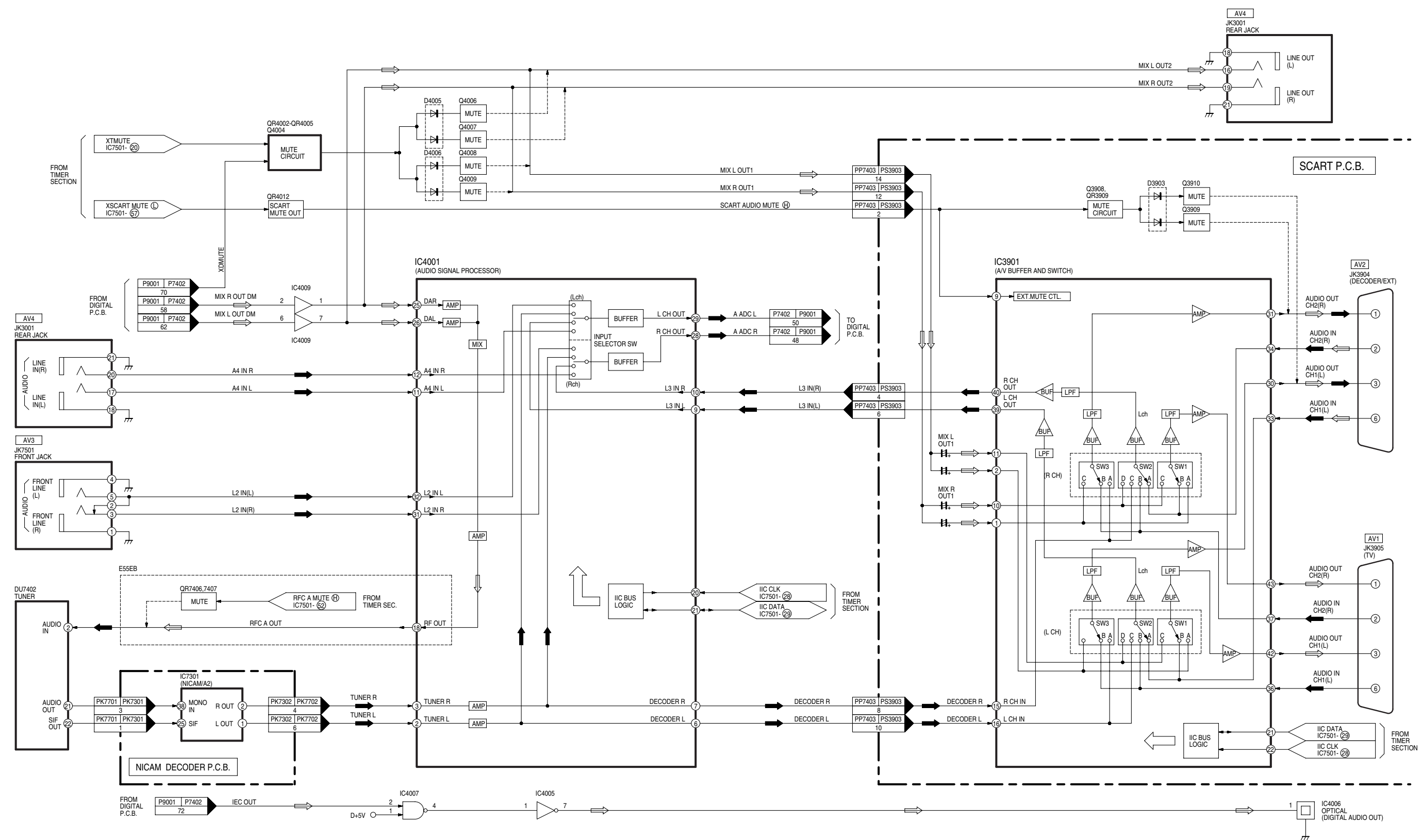
The unit's display



MAIN P.C.B.

MAIN P.C.B.

➡:REC SIGNAL ➡:PB SIGNAL



DMR-E53EG,E55EB/EG/EBL/EP
Analog Audio Block Diagram

F

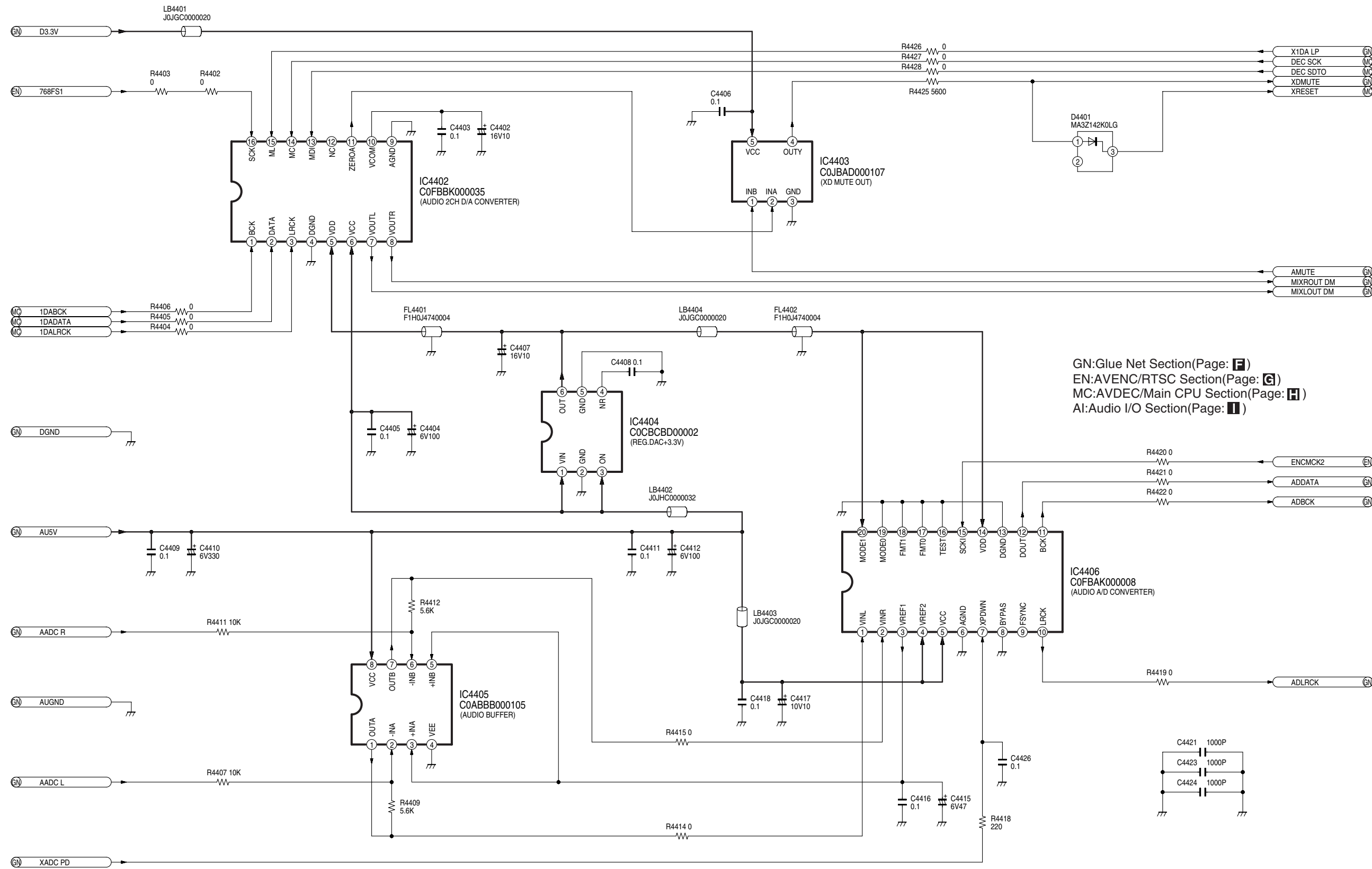
E

D

C

B

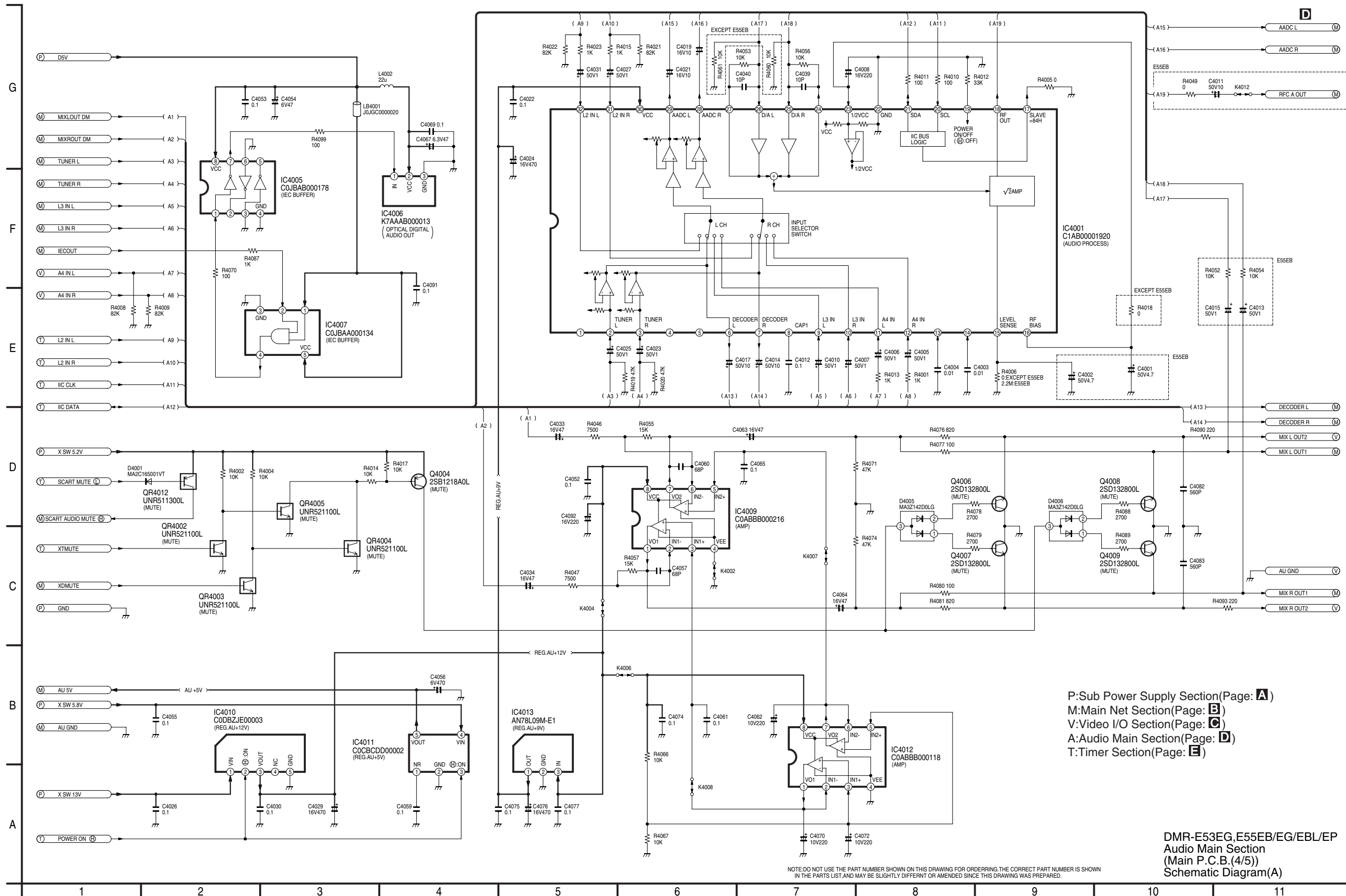
A



GN:Glue Net Section(Page: F)
 EN:AVENC/RTSC Section(Page: G)
 MC:AVDEC/Main CPU Section(Page: H)
 AI:Audio I/O Section(Page: I)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

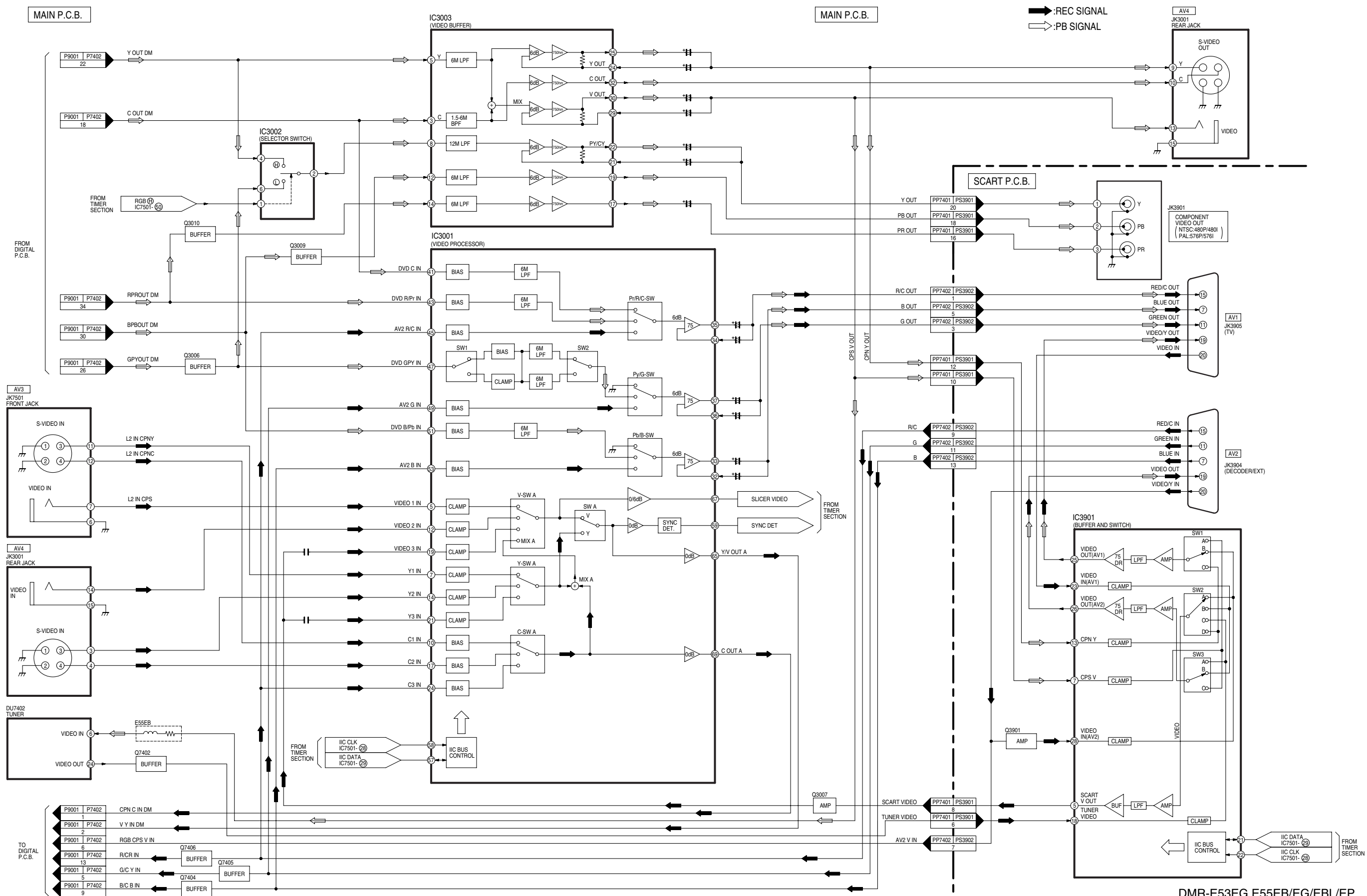
DMR-E53EG,E55EB/EG/EBL/EP
 Audio I/O Section (Digital P.C.B.(4/4))
 Schematic Diagram (AI)



P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

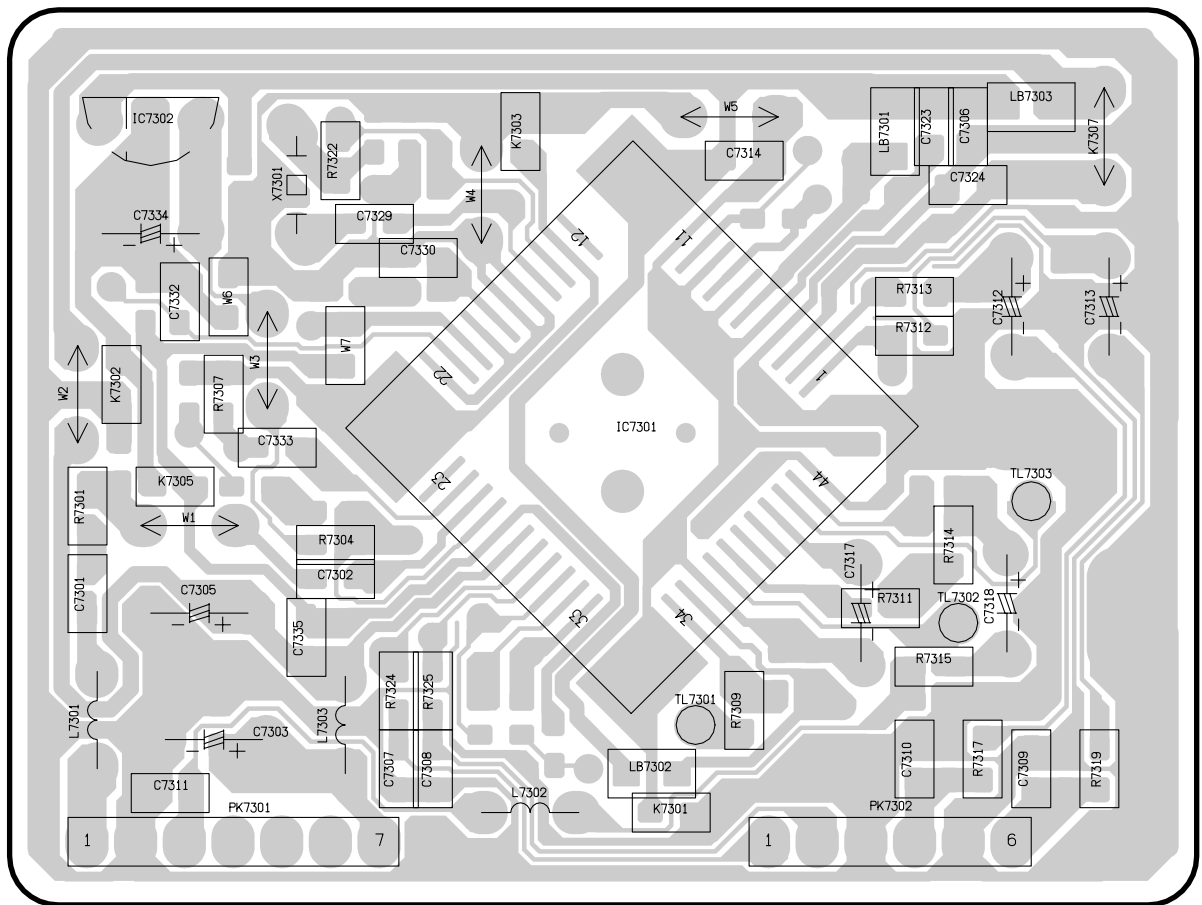
DMR-E53EG,E55EB/EG/EBL/EP
Audio Main Section
(Main P.C.B.(4/5))
Schematic Diagram(A)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



DMR-E53EG,E55EB/EG/EBL/EP
Analog Video Block Diagram

Nicam Decoder P.C.B.



F

E

D

C

B

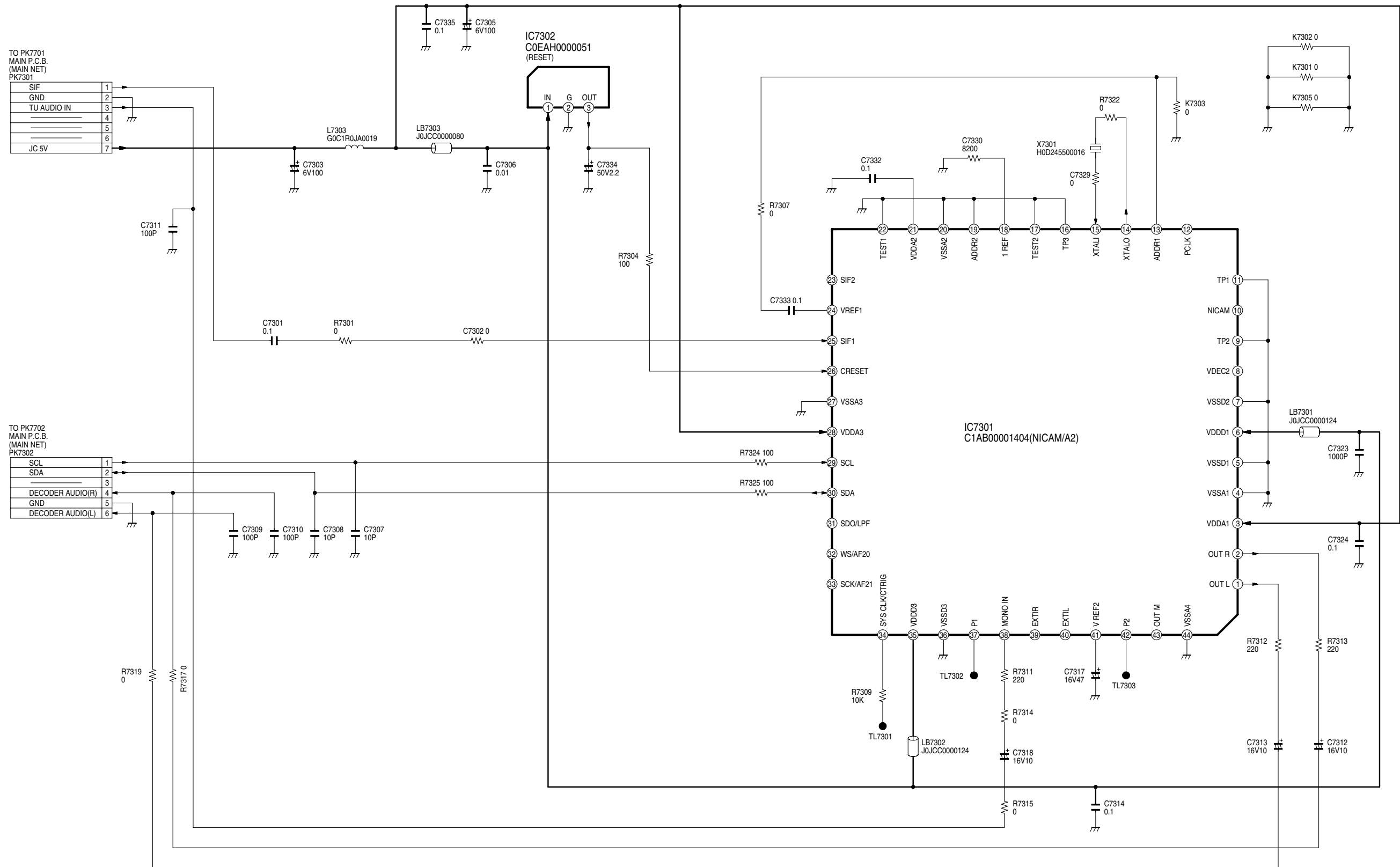
A

TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301

SIF	1
GND	2
TU AUDIO IN	3
	4
	5
	6
JC 5V	7

TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302

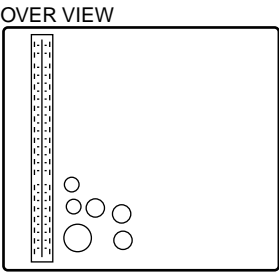
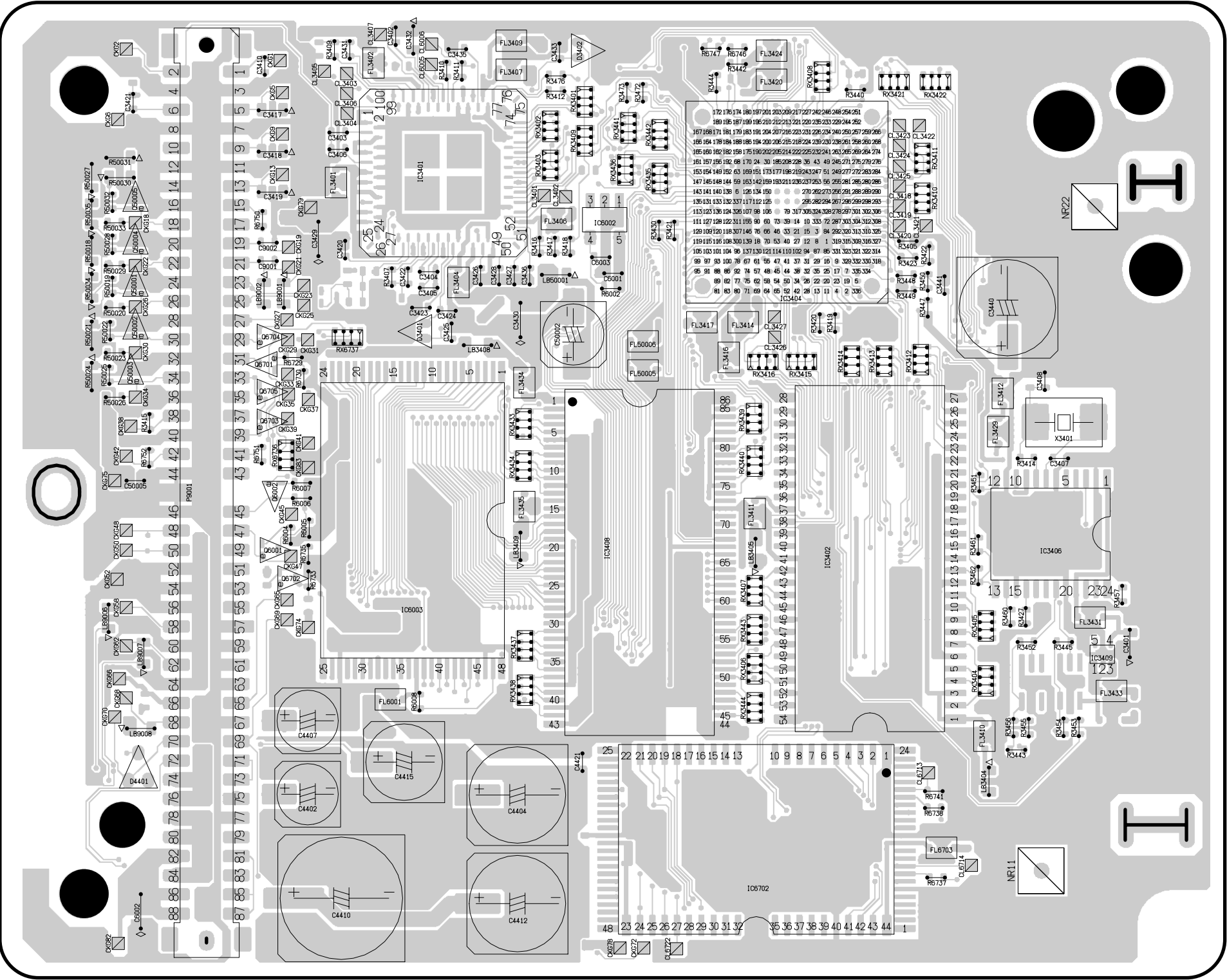
SCL	1
SDA	2
	3
DECODER AUDIO(R)	4
GND	5
DECODER AUDIO(L)	6



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-E53EG, E55EB/EG/EBL/EP
Nicam Decoder Schematic Diagram

Integrated Circuit			CKC88	C-1	F	CKG22	C-1	C	CL6714	A-4	C	FL3429	C-4	C	C4415	A-2	C	R4420	B-4	F	R50002	B-3	F	RX6010	B-3	F
IC3401	C-2	C	CKC93	C-1	F	CKG23	C-2	C	CL6715	A-2	F	FL3431	B-4	C	C4416	B-4	F	R4421	B-4	F	R50003	B-3	F	RX6011	B-3	F
IC3402	B-4	C	CKC94	A-1	F	CKG25	C-2	C	CL6716	A-2	F	FL3433	B-4	C	C4417	A-4	F	R4422	B-4	F	R50004	C-3	F	RX6012	B-3	F
IC3404	C-3	C	CKC95	D-2	F	CKG26	C-1	C	CL6717	A-2	F	FL3434	C-2	C	C4418	B-4	F	R4425	A-4	F	R50005	C-3	F	RX6013	B-3	F
IC3406	B-4	C	CKC96	D-2	F	CKG27	C-2	C	CL6718	A-2	F	FL3435	B-2	C	C4421	A-3	C	R4426	A-4	F	R50006	C-3	F	RX6014	A-4	F
IC3408	B-3	C	CKC97	D-2	F	CKG29	C-2	C	CL6719	A-2	F	FL4401	A-4	F	C4423	B-4	F	R4427	A-4	F	R50007	C-3	F	RX6015	B-3	F
IC3409	B-4	C	CKC98	D-2	F	CKG30	C-1	C	CL6720	A-2	F	FL4402	A-4	F	C4424	A-4	F	R4428	A-4	F	R50008	C-3	F	RX6016	A-3	F
IC4402	A-4	F	CKC99	D-3	F	CKG31	C-2	C	CL6721	A-2	F	FL6001	B-2	C	C4426	B-4	F	R6001	B-2	F	R50009	C-3	F	RX6017	A-3	F
IC4403	A-4	F	CKC100	D-3	F	CKG33	C-2	C	CL6722	A-3	C	FL6002	A-3	F	C6001	C-3	C	R6002	C-3	C	R50010	C-3	F	RX6018	A-3	F
IC4404	A-4	F	CKC102	D-3	F	CKG34	C-1	C	CL50001	C-3	F	FL6003	B-3	F	C6002	A-1	C	R6003	B-2	F	R50011	C-3	F	RX6019	B-3	F
IC4405	B-4	F	CKC103	D-3	F	CKG35	C-2	C	CL50002	C-3	F	FL6004	B-3	F	C6003	C-3	C	R6004	B-2	C	R50012	C-2	F	RX6020	B-3	F
IC4406	B-4	F	CKC105	D-3	F	CKG37	C-2	C	CL50003	C-3	F	FL6005	B-3	F	C9001	C-2	C	R6005	B-2	C	R50013	C-2	F	RX6021	A-3	F
IC6001	B-3	F	CKC106	D-3	F	CKG38	C-1	C	CL50004	C-3	F	FL6006	B-2	F	C9002	C-2	C	R6006	B-2	C	R50015	C-3	F	RX6022	A-3	F
IC6002	C-3	C	CKC108	D-3	F	CKG39	C-2	C	CL50005	C-3	F	FL6008	B-3	F	C50001	C-3	F	R6007	B-2	C	R50016	C-3	F	RX6023	B-3	F
IC6003	B-2	C	CKC109	D-3	F	CKG41	C-2	C	CL50006	C-3	F	FL6009	B-2	F	C50002	C-3	C	R6008	B-2	C	R50017	C-3	F	RX6024	B-3	F
IC6004	A-3	F	CKC112	D-3	F	CKG42	B-1	C	CL50007	C-3	F	FL6010	C-4	F	C50004	C-3	F	R6009	A-3	F	R50018	C-1	C	RX6025	A-3	F
IC6005	C-2	F	CKC113	D-3	F	CKG45	B-2	C	CL50008	C-3	F	FL6011	B-2	F	C50005	B-1	C	R6010	A-3	F	R50019	C-1	C	RX6026	B-3	F
IC6701	B-2	F	CKC114	D-3	F	CKG47	B-2	C	CL50009	C-3	F	FL6012	B-3	F	Resistor			R6013	B-2	F	R50020	C-1	C	RX6027	B-2	F
IC6702	A-3	C	CKC115	D-3	F	CKG48	B-1	C	TL6001	C-1	F	FL6013	B-2	F	R3405	C-4	C	R6018	B-2	F	R50021	C-1	C	RX6028	C-2	F
IC50001	B-4	F	CKC116	D-3	F	CKG50	B-1	C	TL6002	A-1	F	FL6014	C-3	F	R3407	C-2	C	R6019	B-2	F	R50022	C-1	C	RX6029	B-2	F
IC50002	C-4	F	CKC117	D-3	F	CKG52	B-1	C	TL6003	A-1	F	FL6015	B-3	F	R3409	D-2	C	R6020	C-2	F	R50023	C-1	C	RX6030	C-2	F
Transistor			CKC118	B-3	F	CKG58	B-1	C	TL6004	D-1	F	FL6016	C-3	F	R3410	D-2	C	R6021	C-3	F	R50024	C-1	C	RX6031	C-2	F
Q6001	B-2	C	CKC119	B-3	F	CKG62	B-1	C	TL6005	C-1	F	FL6017	B-2	F	R3411	D-2	C	R6022	C-2	F	R50025	C-1	C	RX6032	C-2	F
Q6002	B-2	C	CKC121	D-4	F	CKG65	B-2	C	TL6006	C-1	F	FL6020	B-2	F	R3412	D-3	C	R6023	C-2	F	R50026	C-1	C	RX6033	C-2	F
Q6701	C-2	C	CKC122	D-4	F	CKG66	B-1	C	Connector			FL6021	C-3	F	R3414	B-4	C	R6028	C-3	F	R50027	C-1	C	RX6034	C-2	F
Q6702	B-2	C	CKC123	B-4	F	CKG68	B-1	C	FP3401	A-3	F	FL6022	C-2	F	R3415	C-1	C	R6029	C-3	F	R50028	C-1	C	RX6035	C-3	F
Q6703	C-2	C	CKC124	B-4	F	CKG69	B-2	C	P6002	C-1	F	FL6023	B-1	F	R3416	C-3	C	R6031	C-3	F	R50029	C-1	C	RX6036	C-3	F
Q6704	C-2	C	CKC125	B-4	F	CKG70	B-1	C	P9001	B-1	C	FL6701	B-2	F	R3417	C-3	C	R6035	C-3	F	R50030	C-1	C	RX6037	C-3	F
Q6705	C-2	C	CKC126	B-4	F	CKG72	A-3	C	Diode			FL6702	B-1	F	R3418	C-3	C	R6036	C-3	F	R50031	D-1	C	RX6038	B-3	F
Q50001	C-1	C	CKC127	B-4	F	CKG74	B-2	C	D3401	C-2	C	FL6703	A-4	C	R3419	C-4	C	R6037	C-1	F	R50032	C-1	C	RX6039	C-2	F
Q50002	C-1	C	CKC128	D-4	F	CKG75	B-1	C	D3402	D-3	C	FL50001	B-4	F	R3420	C-3	C	R6038	C-3	F	R50033	C-1	C	RX6040	C-2	F
Q50003	C-1	C	CKC129	B-4	F	CKG78	A-3	C	D4401	A-1	C	FL50002	C-4	F	R3421	C-3	C	R6040	C-2	F	R50034	C-1	C	RX6041	C-1	F
Q50004	C-1	C	CKC131	B-4	F	CKG79	C-2	C	Crystal Osillator			FL50003	C-4	F	R3422	C-4	C	R6702	A-2	F	R50035	C-1	C	RX6042	C-1	F
Q50005	C-1	C	CKC132	B-3	F	CKG82	A-1	C	X3401	C-4	C	FL50004	D-5	F	R3423	C-4	C	R6703	B-2	F	RX3401	D-3	C	RX6043	C-3	F
Transistor-resistor			CKC133	B-4	F	CKG83	B-2	C	Coil			FL50005	C-3	C	R3427	B-4	C	R6704	A-2	F	RX3402	D-3	C	RX6044	C-3	F
QR3401	A-2	F	CKC134	B-4	F	CL3401	C-3	C	LB3404	A-4	C	FL50006	C-3	C	R3430	C-3	C	R6706	A-2	F	RX3403	C-3	C	RX6706	B-2	F
Test Point			CKC135	D-4	F	CL3402	C-3	C	LB3405	B-3	C	Capacitor			R3440	D-4	C	R6707	B-2	F	RX3404	B-4	C	RX6708	B-2	F
CKC19	A-1	F	CKC136	D-4	F	CL3403	D-2	C	LB3408	C-2	C	C3401	B-5	C	R3442	D-3	C	R6709	A-2	F	RX3405	B-4	C	RX6711	B-2	F
CKC20	D-2	F	CKC137	D-4	F	CL3404	D-2	C	LB3409	B-2	C	C3402	D-2	C	R3443	A-4	C	R6710	B-2	F	RX3406	B-3	C	RX6712	B-2	F
CKC22	D-2	F	CKC138	D-4	F	CL3405	D-2	C	LB4401	A-4	F	C3403	D-2	C	R3444	D-3	C	R6711	A-2	F	RX3407	B-3	C	RX6716	B-1	F
CKC24	D-2	F	CKC139	D-4	F	CL3406	D-2	C	LB4402	A-4	F	C3404	C-2	C	R3445	B-4	C	R6712	B-2	F	RX3408	D-4	C	RX6717	A-1	F
CKC25	C-3	F	CKF1	A-3	F	CL3407	D-2	C	LB4403	A-4	F	C3405	C-2	C	R3447	C-4	C	R6713	A-2	F	RX3409	D-3	C	RX6718	A-1	F
CKC27	B-2	F	CKF3	A-3	F	CL3410	C-3	F	LB4404	A-4	F	C3406	D-2	C	R3448	C-4	C	R6714	B-2	F	RX3410	C-4	C	RX6719	B-1	F
CKC29	C-3	F	CKF4	A-3	F	CL3411	C-3	F	LB6001	C-2	F	C3407	B-4	C	R3449	C-4	C	R6715	B-2	F	RX3411	D-4	C	RX6720	A-1	F
CKC30	C-3	F	CKF5	A-3	F	CL3412	C-3	F	LB6002	B-1	F	C3408	C-4	C	R3450	C-4	C	R6718	B-2	F	RX3412	C-4	C	RX6721	A-1	F
CKC32	C-3	F	CKF6	A-3	F	CL3413	C-3	F	LB9001	C-2	C	C3410	D-2	C	R3451	B-4	C	R6720	B-2	F	RX3413	C-4	C	RX6724	B-2	F

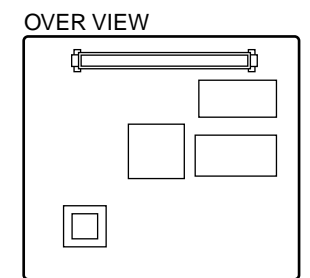


(COMPONENT SIDE)

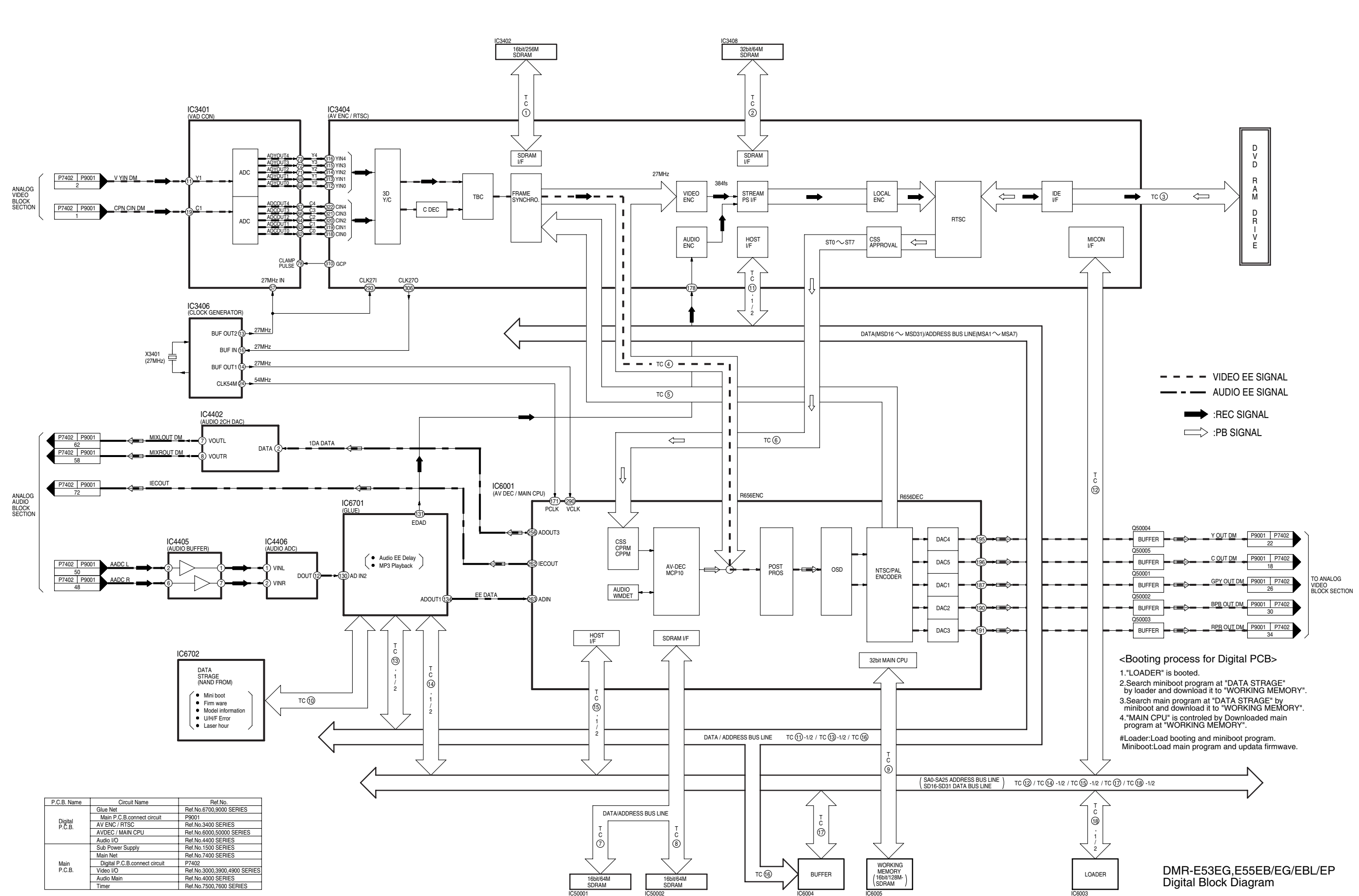
DMR-E53EG, E55EB/EG/EBL/EP
Digital P.C.B. (Component side)
REP3717CJ: E53EG
REP3717C: E55EG
RFKBE55EB: E55EB
RFKBE55EBL: E55EBL
RFKBE55EP: E55EP

A

5



DMR-E53EG, E55EB/EG/EBL/EP
Digital P.C.B. (Foil side)
REP3717CJ: E53EG
REP3717C: E55EG
RFKBE55EB: E55EB
RFKBE55EBL: E55EBL
RFKBE55EP: E55EP



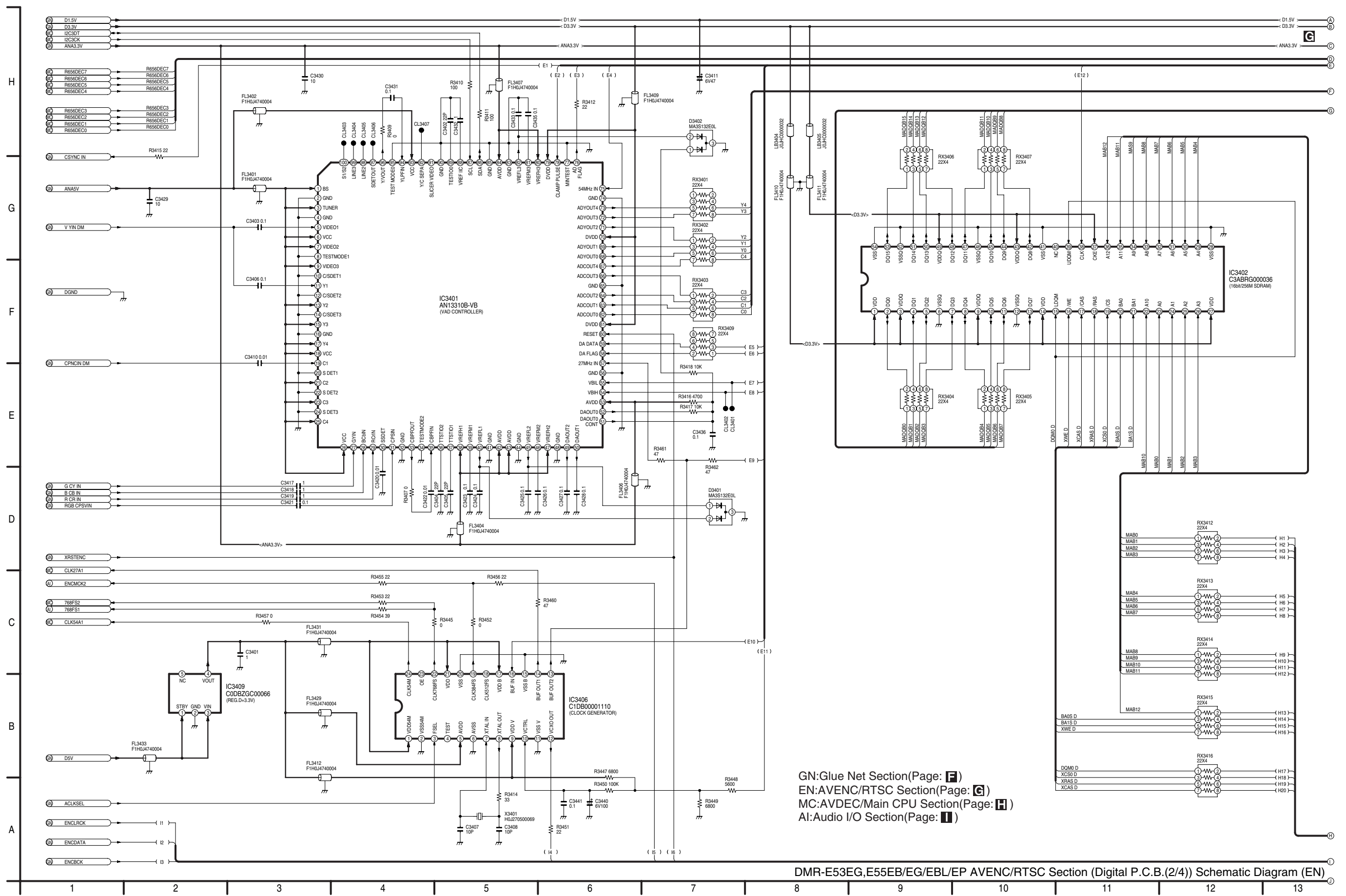
P.C.B. Name	Circuit Name	Ref. No.
Digital P.C.B.	Glue Net	Ref.No.6700,9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV ENC / RTSC	Ref.No.3400 SERIES
	AVDEC / MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
Main P.C.B.	Sub Power Supply	Ref.No.1500 SERIES
	Main Net	Ref.No.7400 SERIES
	Digital P.C.B.connect circuit	P7402
	Video I/O	Ref.No.3000,3900,4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

<Booting process for Digital PCB>

- 1."LOADER" is booted.
- 2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
- 3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
- 4."MAIN CPU" is controlled by Downloaded main program at "WORKING MEMORY".

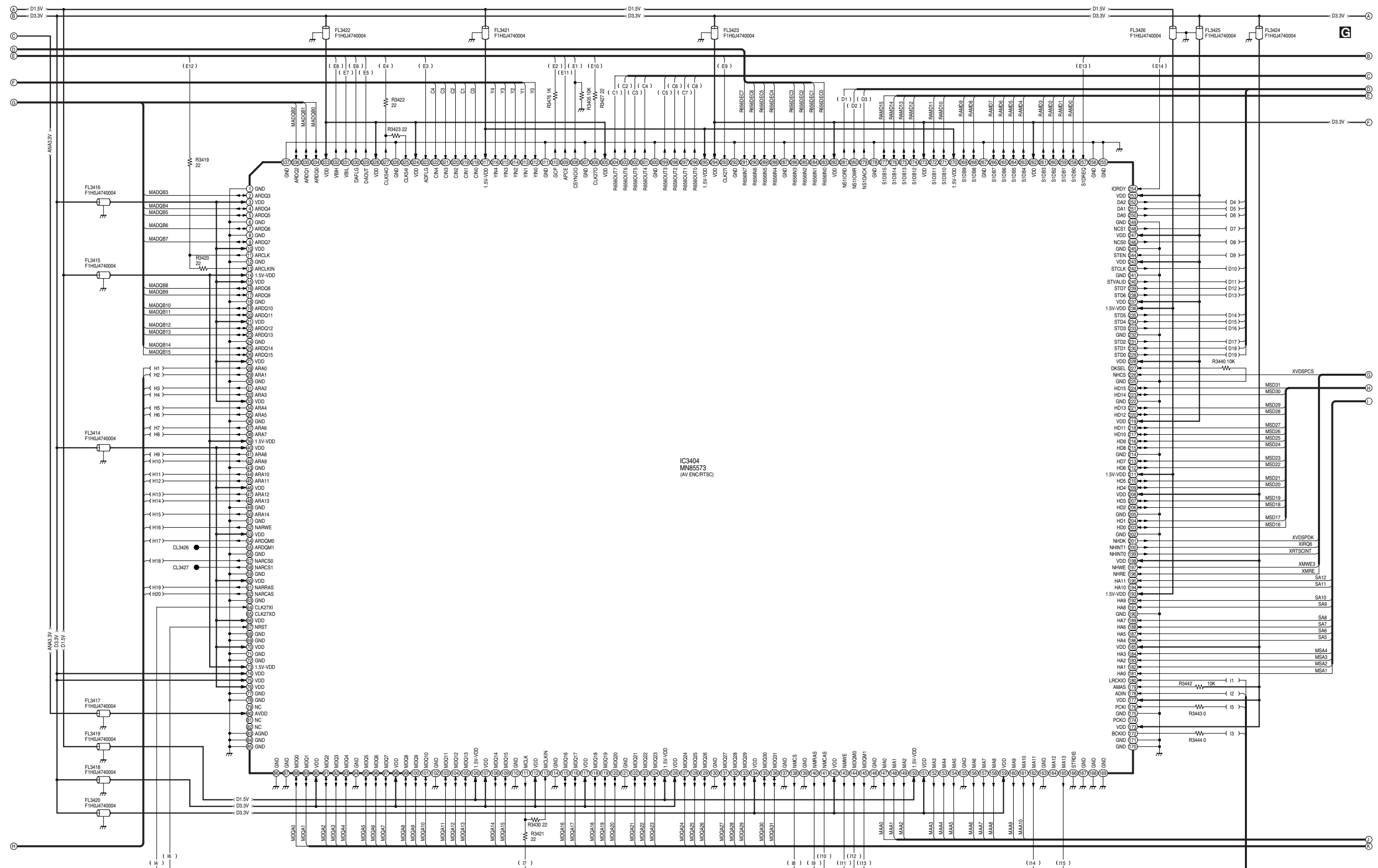
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

DMR-E53EG,E55EB/EG/EBL/EP
Digital Block Diagram



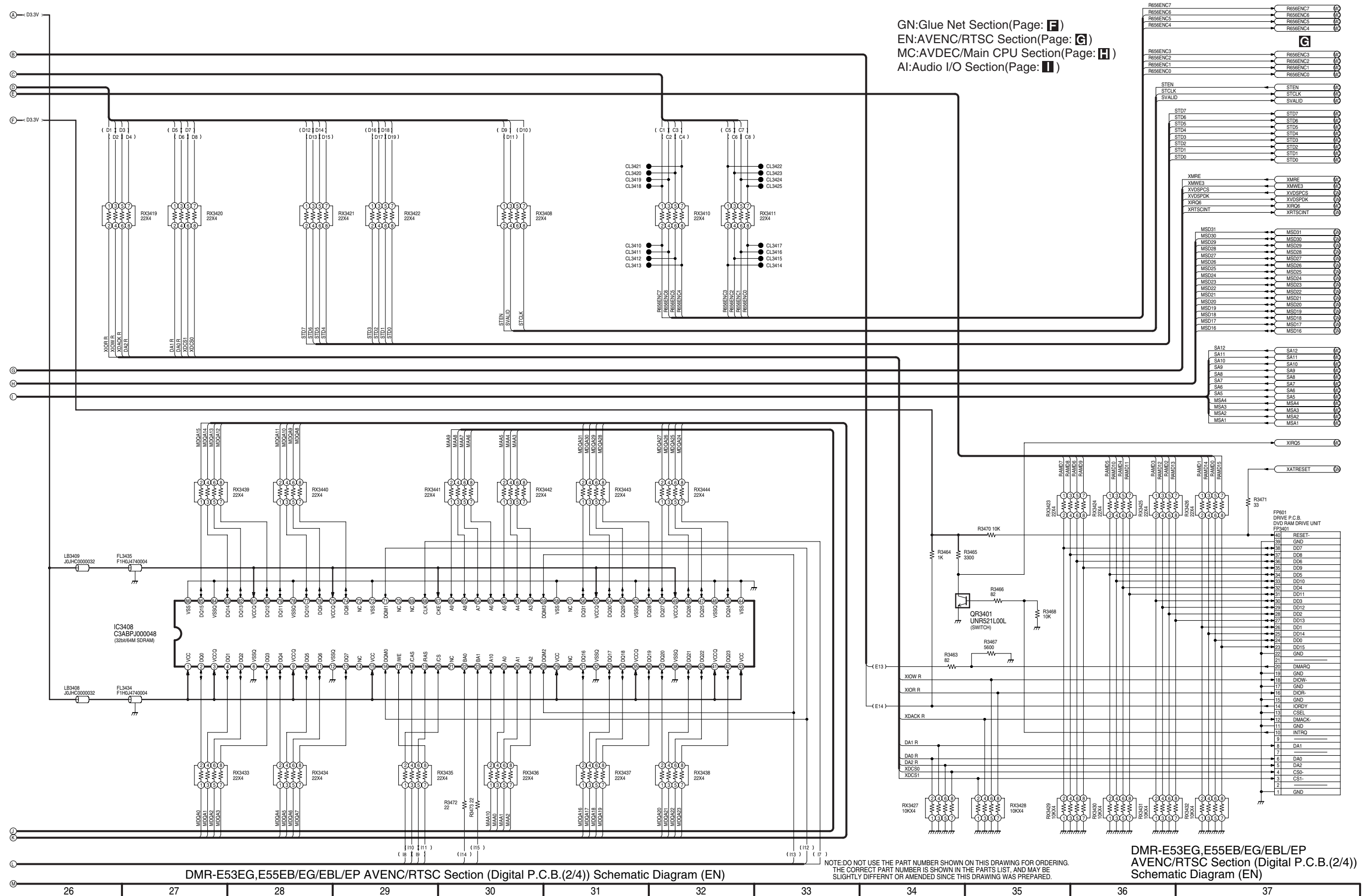
GN:Glue Net Section(Page: 1)
EN:AVENC/RTSC Section(Page: 2)
MC:AVDEC/Main CPU Section(Page: 3)
AI:Audio I/O Section(Page: 4)

DMR-E53EG,E55EB/EG/EBL/EP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)



DMR-E53EG,E55EB/EG/EBL/EP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

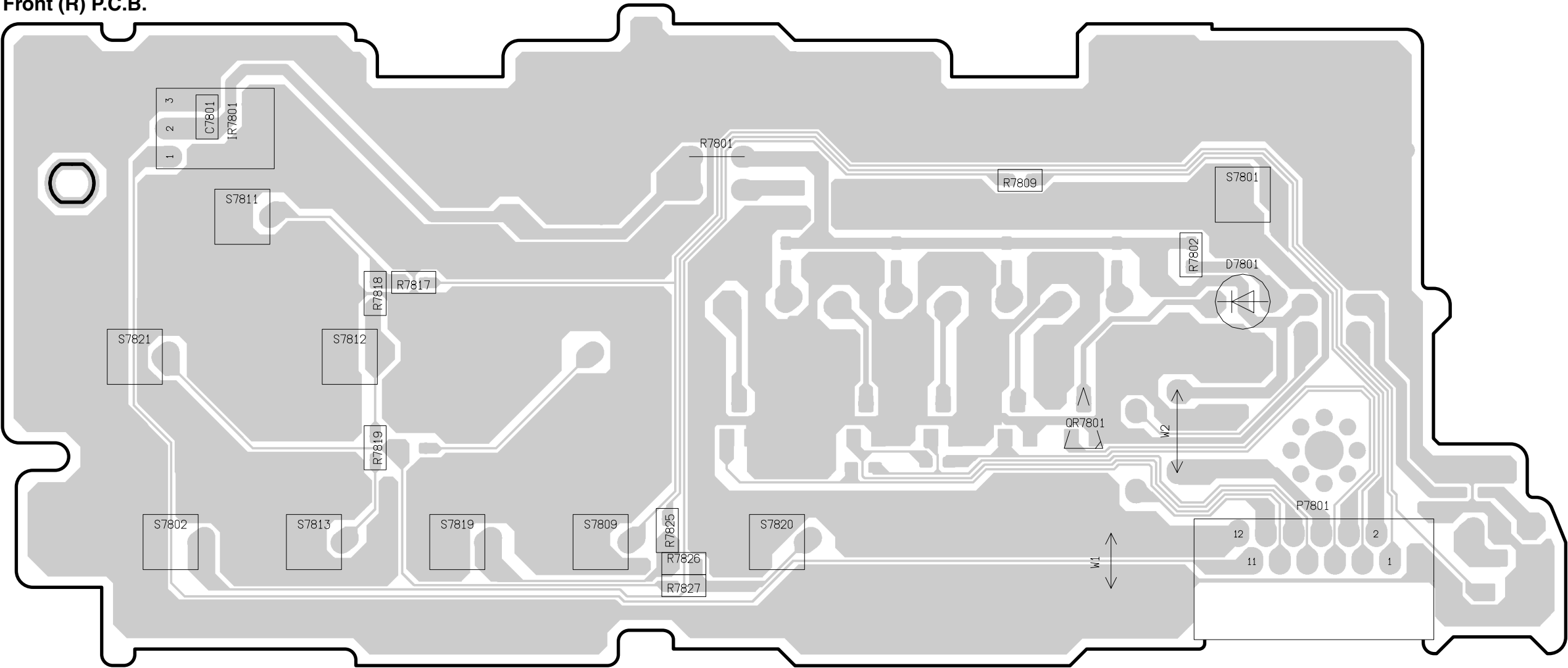
DMR-E53EG,E55EB/EG/EBL/EP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

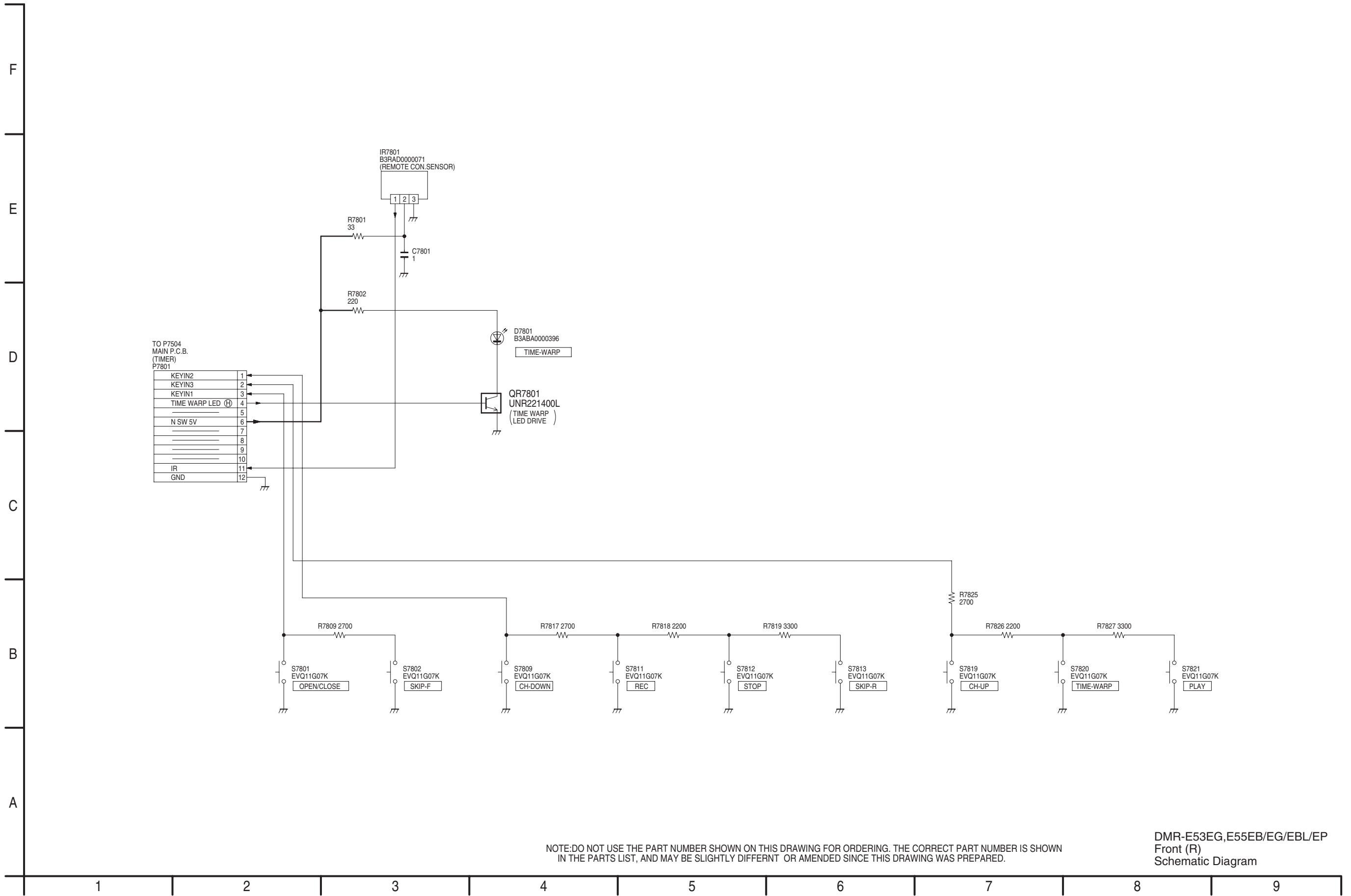


DMR-E53EG,E55EB/EG/EBL/EP AVENC/RTSC Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

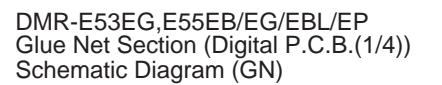
DMR-E53EG,E55EB/EG/EBL/EP
AVENC/RTSC Section (Digital P.C.B.(2/4))
Schematic Diagram (EN)

Front (R) P.C.B.





Ref No. MODE	QR7801		
	E	C	B
REC	0	3.5	0
PLAY	0	3.5	0
STOP	0	3.5	0



G

F

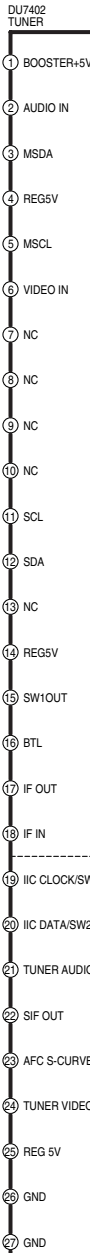
E

D

C

B

A



P7402	
CPNCIN DM	1
Y YIN DM	2
DGND	3
DGND	4
G/CY IN	5
RGB CPSVIN	6
DGND	7
DGND	8
B/CB IN	9
_____	10
DGND	11
DGND	12
R/CR IN	13
DGND	14
_____	15
DGND	16
_____	17
COUT DM	18
_____	19
DGND	20
_____	21
YOUT DM	22
_____	23
DGND	24
_____	25
GPYOUT DM	26
XINTM	27
DGND	28
XINTP	29
BPBOUT DM	30
_____	31
DGND	32
SCLK	33
RPROUT DM	34
XMPPREQ	35
DGND	36
SBMTP	37
CSYNC IN	38
SBPTM	39
DGND	40
_____	41
_____	42
DGND	43
_____	44
DGND	45
_____	46
AADC R	47
_____	48
AADC L	49
_____	50
AUGND	51
_____	52
AUGND	53
_____	54
AUGND	55
_____	56
DGND	57
MIXROUT DM	58
DGND	59
_____	60
DGND	61
MIXLOUT DM	62
DGND	63
AUGND	64
UARTP2G	65
_____	66
DGND	67
AUV	68
UARTG2P	69
XDMUTE	70
_____	71
IECOUT	72
_____	73
D3.3V	74
ANA3.3V	75
D3.3V	76
GND	77
D1.5V	78
ANA5V	79
D1.5V	80
X SW 5.8V	81
D1.2V	82
D5V	83
D1.5V	84
X SW 5.8V	85
D1.2V	86
X SW 5.8V	87
D1.2V	88

P9001	
CPNCIN DM	1
Y YIN DM	2
DGND	3
DGND	4
G/CY IN	5
RGB CPSVIN	6
DGND	7
DGND	8
B/CB IN	9
CC FIELD	10
DGND	11
DGND	12
R/CR IN	13
DGND	14
_____	15
DGND	16
_____	17
COUT DM	18
_____	19
DGND	20
_____	21
YOUT DM	22
_____	23
DGND	24
_____	25
GPYOUT DM	26
XINTM	27
DGND	28
XINTP	29
BPBOUT DM	30
_____	31
DGND	32
SCLK	33
RPROUT DM	34
XMPPREQ	35
DGND	36
SBMTP	37
CSYNC IN	38
SBPTM	39
DGND	40
_____	41
_____	42
DGND	43
_____	44
DGND	45
_____	46
AADC R	47
_____	48
AADC L	49
_____	50
AUGND	51
_____	52
AUGND	53
_____	54
AUGND	55
_____	56
DGND	57
MIXROUT DM	58
DGND	59
_____	60
DGND	61
MIXLOUT DM	62
DGND	63
AUGND	64
UARTP2G	65
_____	66
DGND	67
AUV	68
UARTG2P	69
XDMUTE	70
_____	71
IECOUT	72
_____	73
D3.3V	74
ANA3.3V	75
D3.3V	76
GND	77
D1.5V	78
ANA5V	79
D1.5V	80
X SW 5.8V	81
D1.2V	82
D5V	83
D1.5V	84
X SW 5.8V	85
D1.2V	86
X SW 5.8V	87
D1.2V	88

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	AV ENC/RTSC	Ref.No.3400 SERIES
	AVDEC/MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
	Glue Net	Ref.No.6700,9000 SERIES

DIGITAL P.C.B.

FP3401	
RESET-	40
GND	39
DD7	38
DD8	37
DD6	36
DD9	35
DD5	34
DD10	33
DD4	32
DD11	31
DD3	30
DD12	29
DD2	28
DD13	27
DD1	26
DD14	25
DD0	24
DD15	23
GND	22
_____	21
DMARQ	20
GND	19
DIOW-	18
GND	17
DIOR-	16
GND	15
IORDY	14
CSEL	13
DMACK-	12
GND	11
INTRQ	10
_____	9
DA1	8
_____	7
DA0	6
DA2	5
CS0-	4
CS1-	3
_____	2
GND	1

FP601	
RESET-	1
GND	2
DD7	3
DD8	4
DD6	5
DD9	6
DD5	7
DD10	8
DD4	9
DD11	10
DD3	11
DD12	12
DD2	13
DD13	14
DD1	15
DD14	16
DD0	17
DD15	18
GND	19
_____	20
DMARQ	21
GND	22
DIOW-	23
GND	24
DIOR-	25
GND	26
IORDY	27
CSEL	28
DMACK-	29
GND	30
INTRQ	31
_____	32
DA1	33
_____	34
DA0	35
DA2	36
CS0-	37
CS1-	38
DASP-	39
GND	40

DVD RAM DRIVE
(DRIVE P.C.B.)

PK0701	
IIC CLOCK/SW1	1
IIC DATA/SW2	2
TUNER AUDIO	3
SIF OUT	4
AFC S-CURVE	5
TUNER VIDEO	6
REG 5V	7
GND	8
_____	9

VIF DECODER P.C.B.

PK7701	
SIF	1
GND	2
TU AUDIO IN	3
_____	4
_____	5
_____	6
JC 5V	7

NICAM DECODER P.C.B.

P102	
+12V	1
GND	2
M.GND	3
+5V	4
+5V	5
M.GND	6
GND	7
+12V	8

P1501	
DR12V	1
GND	2
GND	3
DR5V	4
DR5V	5
GND	6
GND	7
DR12V	8

PS3901	
IIC CLK	1
IIC DATA	2
_____	3
BOOSTER+5V	4
PS 5V	5
TUNER VIDEO	6
GND	7
SCART VIDEO IN	8
GND	9
CPS V OUT	10
GND	11
CPN Y OUT	12
GND	13
PS 12V	14
GND	15
PR OUT	16
GND	17
PB OUT	18
GND	19
PY OUT	20

PS3902	
R/C OUT	1
GND	2
G OUT	3
GND	4
B OUT	5
GND	6
AV2 VIDEO IN	7
GND	8
R/C IN	9
GND	10
G IN	11
GND	12
B IN	13
GND	14
AV2 8	15
P50	16
_____	17
_____	18

PS3903	
PWR SAVE	1
SCART AUDIO MUTE	2
GND	3
L3 IN R	4
GND	5
L3 IN L	6
GND	7
DECODER R	8
GND	9
DECODER L	10
GND	11
MIX R OUT1	12
GND	13
MIX L OUT1	14
GND	15

SCART P.C.B.

PP7401	
IIC CLK	1
IIC DATA	2
_____	3
BOOSTER+5V	4
PS 5V	5
TUNER VIDEO	6
GND	7
SCART VIDEO IN	8
GND	9
CPS V OUT	10
GND	11
CPN Y OUT	12
GND	13
PS 12V	14
GND	15
PR OUT	16
GND	17
PB OUT	18
GND	19
PY OUT	20

PP7402	
R/C OUT	1
GND	2
G OUT	3
GND	4
B OUT	5
GND	6
AV2 VIDEO IN	7
GND	8
R/C IN	9
GND	10
G IN	11
GND	12
B IN	13
GND	14
AV2-8	15
P50	16
_____	17
_____	18

PP7403	
PWR SAVE	1
SCART AUDIO MUTE	2
GND	3
L3 IN R	4
GND	5
L3 IN L	6
GND	7
DECODER R	8
GND	9
DECODER L	10
GND	11
MIX R OUT1	12
GND	13
MIX L OUT1	14
GND	15

P.C.B.Name	Circuit Name	Ref.No.
Main P.C.B.	Main Net	Ref.No.7400 SERIES
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

P7503	
FANDCOUT	1
GND	2
FANLOCK	3

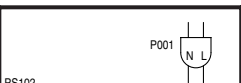


P7504	
KEY IN2	1
KEY IN3	2
KEY IN1	3
TIME WARP LED	4
_____	5
N SW 5V	6
_____	7
_____	8
_____	9
_____	10
IR	11
GND	12

P7801	
KEY IN2	1
KEY IN3	2
KEY IN1	3
TIME WARP LED	4
_____	5
N SW 5V	6
_____	7
_____	8
_____	9
_____	10
IR	11
GND	12

FRONT(R) P.C.B.

P1502	
_____	1
X SW13V	2
X SW5.8V	3
X SW5.8V	4
GND	5
_____	6
GND	7
GND	8
GND	9
DR P.ON	10
_____	11
DR12V	12
DR12V	13
DR GND	14
DR GND	15
DR5V	16
DR5V	17
POWER ON	18
D 3.3V	19
D 3.3V	20
D 1.8V	21
D 1.8V	22
_____	23

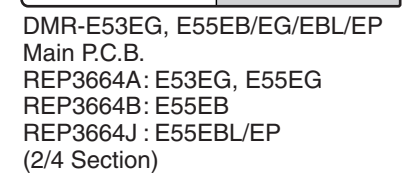


POWER P.C.B.

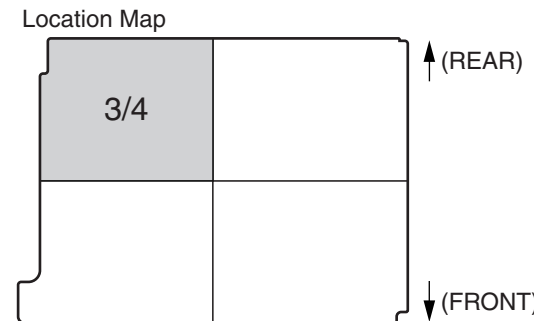
DMR-E53EG,
E55EB/EG/EBL/EP
Interconnection
Schematic Diagram

Main P.C.B.

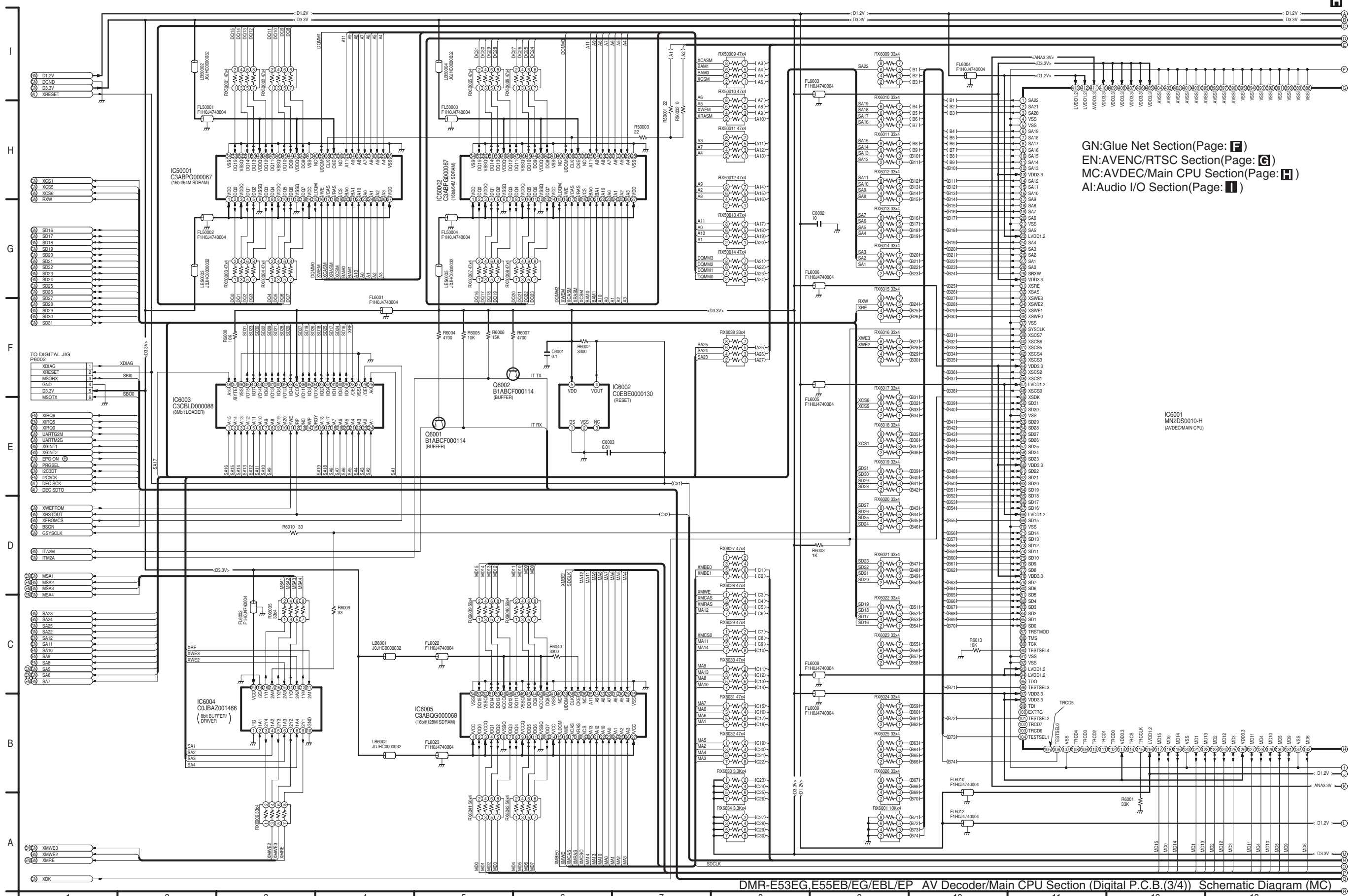
Integrated Circuit		QR7405	E-5	Coil		C1541	D-1	C4004	E-4	C7417	E-8	C7594	C-4	R3060	E-7	R7418	D-8	R7558	C-4	R7646	B-3
IC1502	B-8	QR7406	F-8	L1501	C-2	C1543	D-1	C4005	E-4	C7418	E-8	C7595	C-4	R4001	E-4	R7419	E-8	R7559	C-4	R7647	B-3
IC1505	C-2	QR7407	F-8	L4002	E-2	C3003	E-7	C4006	E-3	C7419	E-8	C7596	C-4	R4002	D-3	R7420	E-8	R7561	C-4	R7649	C-7
IC1506	B-6	QR7501	C-4	L7401	C-5	C3004	D-7	C4007	E-4	C7420	E-8	C7597	C-4	R4004	D-3	R7421	C-7	R7563	C-2	R7670	C-7
IC1507	C-2	QR7502	C-2	L7402	F-7	C3005	D-7	C4008	E-4	C7421	E-8	C7598	C-4	R4005	D-4	R7422	C-7	R7569	C-3	K7508	A-8
IC1508	B-5	QR7503	A-2	L7403	D-8	C3006	D-7	C4010	E-4	C7422	F-8	C7599	C-4	R4006	E-4	R7423	F-7	R7571	C-2	K7510	A-8
IC1509	C-5	QR7507	A-5	L7502	B-2	C3007	D-7	C4011	E-4	C7423	F-8	C7600	C-4	R4007	D-4	R7427	B-7	R7572	C-3	K7514	C-4
IC1510	C-5	QR7508	C-7	LB1501	C-1	C3009	E-7	C4012	E-4	C7424	E-8	C7601	C-4	R4008	E-3	R7428	C-7	R7573	C-3	K7515	C-4
IC3001	E-7	Test Point		LB1503	C-1	C3010	E-7	C4013	E-4	C7425	D-8	C7602	C-4	R4009	E-4	R7429	C-7	R7574	C-3	Transformer	
IC3002	D-5	CL7407	C-6	LB1504	B-1	C3012	E-7	C4014	E-4	C7426	D-8	C7603	C-3	R4010	D-4	R7430	B-7	R7575	B-3	T7501	B-2
IC3003	E-5	CL7502	D-2	LB1505	B-1	C3013	E-7	C4015	E-4	C7427	D-7	C7604	C-3	R4011	D-4	R7431	C-7	R7576	C-3		
IC4001	E-4	CL7503	C-4	LB3002	D-7	C3014	E-7	C4017	E-4	C7428	F-8	C7605	B-3	R4012	E-4	R7432	C-7	R7577	B-3		
IC4005	F-2	CL7505	C-4	LB3003	D-7	C3015	E-7	C4019	D-4	C7429	F-8	C7606	B-3	R4013	E-3	R7433	B-7	R7578	B-3		
IC4006	F-2	CL7506	C-4	LB3004	D-5	C3016	E-7	C4021	D-4	C7431	C-7	C7607	B-3	R4014	D-3	R7434	C-7	R7579	B-3		
IC4007	E-2	CL7507	C-4	LB3005	F-2	C3017	E-7	C4022	E-4	C7432	C-7	C7608	B-3	R4015	E-5	R7435	C-7	R7580	B-3		
IC4009	E-3	CL7508	D-2	LB3006	F-2	C3018	D-7	C4023	C-7	C7433	C-7	C7609	C-4	R4017	D-2	R7436	E-8	R7581	B-3		
IC4010	E-2	TL7401	D-8	LB3007	F-2	C3019	E-7	C4024	E-4	C7434	E-8	C7610	C-4	R4018	E-4	R7437	D-8	R7582	B-3		
IC4011	C-5	TL7501	A-4	LB3008	F-2	C3020	E-7	C4025	C-7	C7439	F-5	C7611	B-3	R4019	C-7	R7438	C-6	R7583	B-3		
IC4012	E-2	TL7502	A-2	LB4001	E-2	C3021	E-7	C4026	E-2	C7440	B-7	C7612	B-3	R4020	C-7	R7439	C-6	R7584	B-3		
IC4013	E-2	TL7503	C-4	LB7401	F-7	C3022	D-6	C4027	E-5	C7441	B-7	C7613	B-3	R4021	E-5	R7440	C-6	R7585	C-2		
IC7401	F-5	TL7504	C-4	LB7402	F-7	C3023	D-6	C4029	E-2	C7502	C-4	C7618	C-2	R4022	E-5	R7441	C-6	R7586	C-4		
IC7402	F-7	TL7505	C-2	LB7403	F-7	C3024	E-6	C4030	E-2	C7503	C-2	C7620	C-3	R4023	E-5	R7442	C-6	R7588	C-4		
IC7403	E-7	TL7507	C-3	LB7404	E-8	C3025	E-6	C4031	E-4	C7504	B-2	C7626	C-2	R4046	E-3	R7443	C-6	R7589	B-3		
IC7501	C-3	TL7508	A-3	LB7405	D-8	C3026	D-6	C4033	E-3	C7507	C-1	C7633	C-2	R4047	E-3	R7444	E-7	R7590	B-3		
IC7502	A-3	TL7518	B-7	LB7406	D-7	C3027	E-6	C4034	E-3	C7508	A-4	C7636	E-2	R4049	E-4	R7505	B-3	R7591	B-2		
IC7503	C-2	TL7519	B-7	LB7407	B-7	C3028	E-6	C4039	E-4	C7509	A-4	C7637	E-1	R4052	D-4	R7506	B-2	R7593	A-4		
IC7504	A-8	TL7520	A-6	LB7408	B-6	C3029	E-6	C4040	E-4	C7511	A-8	C7639	D-2	R4053	E-4	R7507	B-2	R7594	B-4		
IC7505	C-2	TL7521	C-7	LB7409	B-5	C3030	E-6	C4052	E-3	C7512	A-6	C7646	C-3	R4054	E-4	R7508	B-2	R7595	C-3		
IC7506	E-2	TL7522	D-3	LB7501	A-2	C3031	E-6	C4053	F-2	C7513	A-6	C7650	C-3	R4055	E-3	R7510	B-2	R7596	C-3		
IC7508	B-4	TL7523	C-3	LB7502	A-2	C3032	E-6	C4054	F-2	C7514	A-6	C7652	B-3	R4056	E-4	R7513	B-2	R7597	C-2		
Transistor		TL7524	C-7	LB7503	B-2	C3033	E-6	C4055	C-5	C7515	A-6	Resistor		R4057	D-3	R7514	B-2	R7598	C-2		
Q3006	E-6	TL7525	B-3	LB7504	A-4	C3034	E-6	C4056	C-6	C7516	A-7	R1501	B-2	R4060	E-4	R7516	A-4	R7599	C-4		
Q3007	E-7	TL7526	B-4	LB7506	B-4	C3035	E-7	C4057	D-3	C7517	C-4	R1502	B-2	R4061	D-4	R7517	B-4	R7600	E-2		
Q3009	D-5	TW7501	B-1	LB7507	B-4	C3036	E-7	C4059	C-5	C7525	B-3	R1503	B-2	R4066	E-2	R7518	A-4	R7601	E-2		
Q3010	D-6	Connector		LB7508	C-4	C3037	E-7	C4060	E-3	C7526	B-3	R1504	D-2	R4067	E-2	R7519	A-4	R7602	E-1		
Q4004	D-2	P1501	C-2	LB7509	C-3	C3038	E-5	C4061	E-3	C7527	A-2	R1506	B-5	R4070	E-2	R7520	B-3	R7603	E-2		
Q4006	F-2	P1502	C-1	LB7510	B-2	C3039	D-5	C4062	E-2	C7528	A-3	R1507	C-5	R4071	E-3	R7521	B-4	R7604	A-7		
Q4007	F-2	P7402	B-6	LB7511	C-2	C3040	E-5	C4063	E-3	C7529	A-3	R1508	C-5	R4074	D-3	R7522	B-4	R7605	A-7		
Q4008	D-3	P7503	E-1	LB7512	A-7	C3041	E-5	C4064	D-3	C7546	B-4	R1509	C-5	R4076	E-3	R7523	A-4	R7606	A-7		
Q4009	D-4	P7504	A-1	LB7513	A-7	C3042	E-5	C4065	E-3	C7550	A-2	R1510	C-5	R4077	E-3	R7529	C-2	R7607	C-4		
Q7401	E-5	PP7401	F-7	LB7514	A-7	C3045	D-5	C4067	F-2	C7551	B-1	R1511	C-5	R4078	F-2	R7530	B-5	R7608	C-4		
Q7402	E-8	PP7402	F-6	LB7515	A-6	C3046	D-5	C4069	F-2	C7552	B-2	R1512	C-5	R4079	F-2	R7531	B-4	R7611	B-4		
Q7404	C-7	PP7403	F-4	LB7516	A-6	C3047	E-5	C4070	E-2	C7555	A-1	R1515	C-5	R4080	D-3	R7532	B-4	R7612	C-4		
Q7405	B-7	JK3001	F-3	Capacitor		C3048	E-5	C4072	E-2	C7556	A-1	R1516	B-2	R4081	D-3	R7533	B-4	R7613	B-4		
Q7406	B-7	JK7501	A-6	C1503	B-8	C3049	E-5	C4074	E-2	C7558	A-1	R3026	E-6	R4087	E-2	R7534	B-3	R7620	B-4		
Q7503	A-2	Diode		C1504	B-8	C3051	E-5	C4075	E-2	C7559	B-2	R3027	E-6	R4088	D-3	R7535	B-3	R7621	C-4		
Q7505	A-4	D1501	B-2	C1505	B-8	C3052	E-5	C4076	E-2	C7560	B-1	R3028	E-6	R4089	D-4	R7536	B-4	R7625	B-3		
Q7506	A-4	D4001	D-3	C1512	B-2	C3053	E-6	C4077	E-2	C7562	A-4	R3029	D-7	R4090	F-2	R7537	A-1	R7626	A-8		
Q7507	A-4	D4005	E-3	C1513	C-2	C3054	E-6	C4082	F-2	C7563	A-4	R3030	D-7	R4093	F-2	R7538	B-4	R7627	C-3		
Q7508	A-4	D4006	D-4	C1514	C-2	C3055	E-6	C4083	D-3	C7565	B-3	R3037	E-7	R4099	F-2	R7539	B-4	R7628	C-3		
Q7511	A-4	D7401	F-5	C1515	C-2	C3056	E-6	C4091	E-2	C7566	A-4	R3038	E-7	R7401	F-5	R7540	B-4	R7629	C-3		
Q7512	E-1	D7402	E-8	C1516	B-6	C3057	F-2	C4092	E-3	C7567	B-4	R3044	D-7	R7402	F-5	R7541	B-4	R7630	C-2		
Q7513	A-4	D7403	F-5	C1518	B-6	C3058	F-2	C7401	F-5	C7568	A-4	R3045	D-7	R7403	F-5	R7542	B-4	R7631	C-2		
Q7517	A-4	D7501	B-2	C1519	B-6	C3059	F-2	C7402	E-5	C7569	A-4	R3046	D-7	R7404	F-5	R7543	B-4	R7632	C-3		
Q7518	A-4	D7502	B-2	C1520	C-2	C3060	F-3	C7403	F-7	C7580	B-4	R3047	D-6	R7405	F-5	R7544	B-4	R7633	B-3		
Transistor-resistor		D7504	B-2	C1521	C-2	C3061	F-2	C7404	F-7	C7581	B-4	R3048	D-5	R7406	E-5	R7545	C-4	R7634	B-3		
QR3002	D-5	D7505	B-2	C1522	C-2	C3062	F-2	C7405	E-7	C7582	B-3	R3049	D-5	R7407	E-5	R7546	B-4	R7635	C-4		
QR3																					



D



DMR-E53EG, E55EB/EG/EBL/EP
Main P.C.B.
REP3664A: E53EG, E55EG
REP3664B: E55EB
REP3664J : E55EBL/EP
(3/4 Section)



GN:Glue Net Section(Page: **F**)
EN:AVENC/RTSC Section(Page: **E**)
MC:AVDEC/Main CPU Section(Page: **H**)
AI:Audio I/O Section(Page: **I**)

GN:Glue Net Section(Page: **F**)
 EN:AVENC/RTSC Section(Page: **G**)
 MC:AVDEC/Main CPU Section(Page: **H**)
 AI:Audio I/O Section(Page: **I**)

IC6001
 MN2DS0010-H
 (AVDEC/MAIN CPU)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E53EG,E55EB/EG/EBL/EP
 AV Decoder/Main CPU Section
 (Digital P.C.B.(3/4))
 Schematic Diagram (MC)



